DOOR WINDOWS

TOOLS

Special tools, workshop equipment, testers, measuring instruments and auxiliary items required

- T 10011 Socket Insert.

FRONT DOOR WINDOW, ASSEMBLY OVERVIEW

NOTE: The following list refers to items in Fig. 1 .

1. **Window guide**
   - Pushed onto flange.
2. **Door window**
   - Removing, see **FRONT DOOR WINDOW, REMOVING** .
   - Adjusting, see **DOOR WINDOW, ADJUSTING** .
3. **Door**
4. **Outer window guide**
   - Pushed onto flange.
5. **Window slot seal**
   - Pushed onto flange.
6. **Trim**
7. **Phillips screw**
8. **Spring nut**
9. **Bolt/screw**
   - 20 N.m.
10. **Window slot seal**
    - Pushed onto flange.
11. **Assembly carrier**
    - Removing and installing, see **ASSEMBLY CARRIER, REMOVING AND INSTALLING** .
    - Window regulator is part of assembly carrier.
12. **Crank handle for manually operated window**
    - Bolted unto assembly carrier from back of carrier.
13. **Window electric motor**
    - Bolted unto assembly carrier from front of carrier.

14. **Bolt/screw**
    - 8 N.m.
15. **Cover cap**
16. **Bolt/screw**
    - 10 N.m.

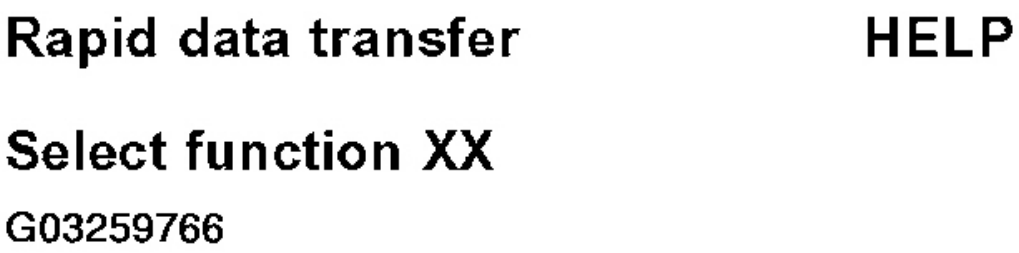

Fig. 1: Exploded View Of Front Door Window Assembly
Courtesy of VOLKSWAGEN OF AMERICA, INC.

FRONT DOOR WINDOW, REMOVING

- Remove front door trim.

  See **DOOR TRIM** .

- Pry out cover caps -1-.

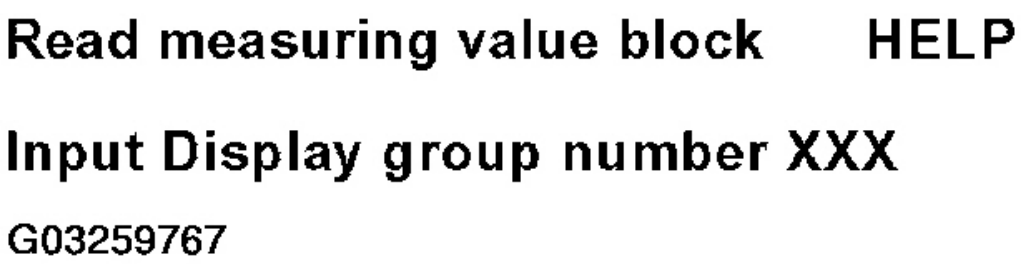

Fig. 2: Prying Out Cover Caps

Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Lower door window until clamp securing bolts/screws are accessible.

NOTE: If the work sequence cannot be carried out because there is a malfunction with the electric window motor, remove motor to slide window down.

- Loosen bolts/screws -2- and press clamps apart.
- Lower window regulator further.
- Lift rear of door window and swing out of door forward in direction of -arrow-.

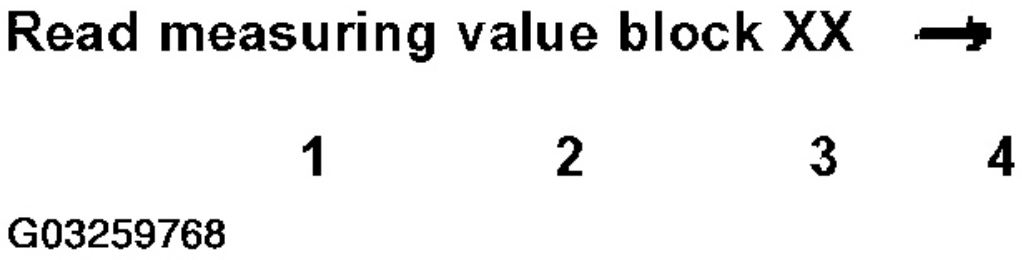

Fig. 3: Lifting Rear Of Door Window And Swinging Out Of Door
Courtesy of VOLKSWAGEN OF AMERICA, INC.

DOOR WINDOW, ADJUSTING

- The door window clamps must be positioned in the assembly openings.
- Push door window -1-- into window guide -arrow- and tighten clamps with bolts/screws -2-(10 N.m).
  - Then perform functional check.

Fig. 4: Adjusting Door Window
Courtesy of VOLKSWAGEN OF AMERICA, INC.

WINDOW REGULATOR, TROUBLESHOOTING

Prior to changing a window regulator, due to a binding condition, please follow these steps.

NOTE:

- **Glass must be tight on the clamp carrier of the window regulator.**
- **The window channel opening must be uniform and consistent all the way around the opening and at the weld joint at the lower A-pillar area.**
- **If the glass is not going all the way down and/or a "clunk" noise occurs, check the motor programming using the VAS 5051 and check the system for any malfunctions or Diagnostic Trouble Codes (DTC).**
- **These steps must be performed when replacing the old motor with a new one or when the battery is discharged.**

If door window binds in up (raised) position, activate pinch protection using following:

- Bring window glass all way up and press window up switch 2X (two times).
- Bring window glass all way down and press window down switch 2x (two times).
- Cycle window glass up and down. You must hear a "clunk" noise, which means that glass is now fully seated on window regulator.
- Cycle window up and down several times to verify effectiveness of the repair.

ASSEMBLY CARRIER, REMOVING AND INSTALLING

Window regulators, door lock and loudspeaker are secured to assembly carrier.

Door lock can only be removed in conjunction with assembly carrier.

Assembly carrier can only be removed when door window clamps of window regulator are unscrewed. To do

this lower door window to height of assembly holes in assembly carrier and loosen clamps.

If electric windows cannot be lowered then cause of fault must be determined first.

To do this, interrogate convenience locking system malfunction memory (address word 46) using fault reader V.A.G 1551.

See **COMFORT SYSTEM (VEHICLES WITH POWER WINDOWS), ON BOARD DIAGNOSTIC (OBD)** .

If an electrical malfunction is present, correct this first.

If it is established that the electric window motor is the cause of malfunction, then continue as described on **REMOVING** .

Removing

- Remove front door trim.

  See **DOOR TRIM** .

- Remove lock cylinder housing. See **LOCK CYLINDER HOUSING, REMOVING** .
- Unclip clip -1- from door handle.

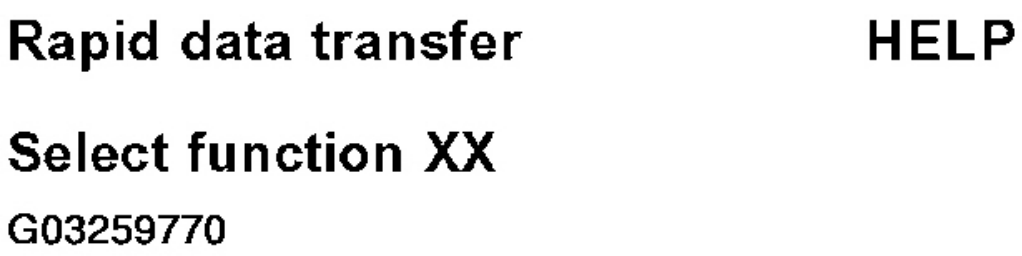

Fig. 5: Removing Clip From Door Handle
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Pry off cover caps -1-.

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Fig. 6: Removing Cover Caps
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Lower door window until door window securing bolts are accessible.

NOTE: If work sequence cannot be carried out because there is a fault with electric window motor, remove motor to slide window down.

- Loosen bolts/screws -2- and press clamps apart.
- Push window upward and secure in position (e.g. with adhesive tape).
- Remove hood release lever (driver's side only). See **RELEASE LEVER, REMOVING AND INSTALLING** .
- Remove A-pillar lower trim.

  See **A-PILLAR LOWER TRIM, REMOVING AND INSTALLING** .

- Disconnect multi-pin connections -1- on A-pillar -2-.

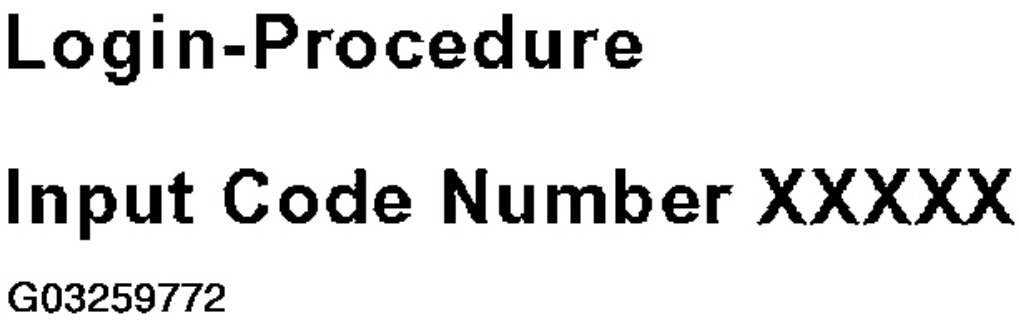


Fig. 7: Disconnecting Multi-Pin Connections On A-Pillar
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Take cover -1- for wiring harness -2- out of body opening in A-pillar.

Fig. 8: Identifying Wiring Harness Cover
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Pull wiring harness out of A-pillar at bellows -1- between door and A-pillar.

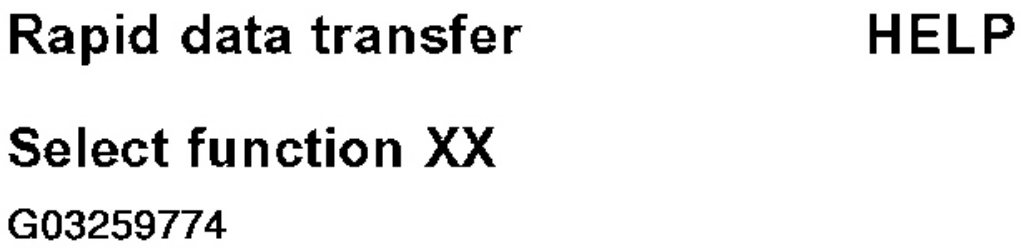


Fig. 9: Pulling Wiring Harness Out Of A-Pillar At Bellows Between Door And A-Pillar
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Disconnect connection for exterior mirror -arrow- and unhook wiring from assembly carrier.

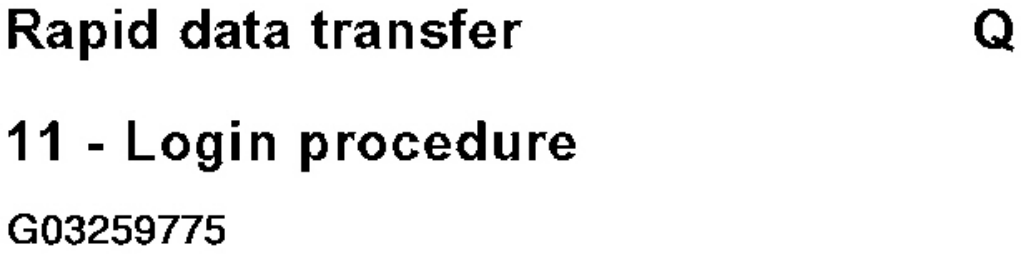


Fig. 10: Disconnecting Connection For Exterior Mirror And Unhook Wiring From Assembly Carrier
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Remove screw -1- and unhook wiring harness guide -2- from door.
- Guide wiring harness with boot through door.
- Remove bolts/screws -1-. Torque setting: 20 N.m (15 ft lbs).

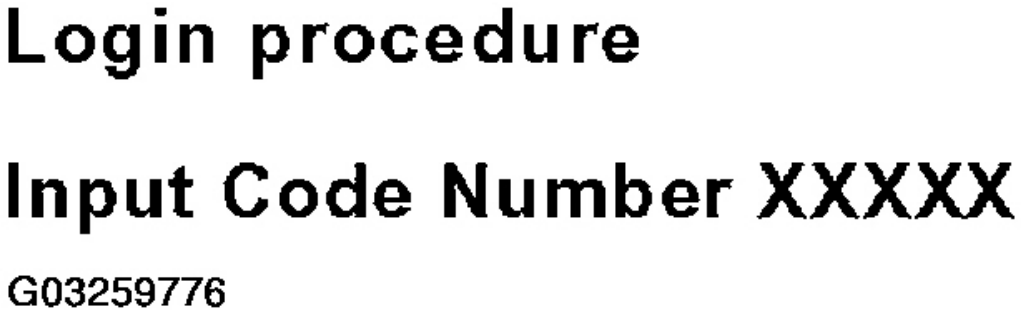


Fig. 11: Removing Bolts/Screws Of Door Lock
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Remove bolts/screws -1-- to -11-. Pull top of assembly carrier off door, lift and remove door toward hinges.

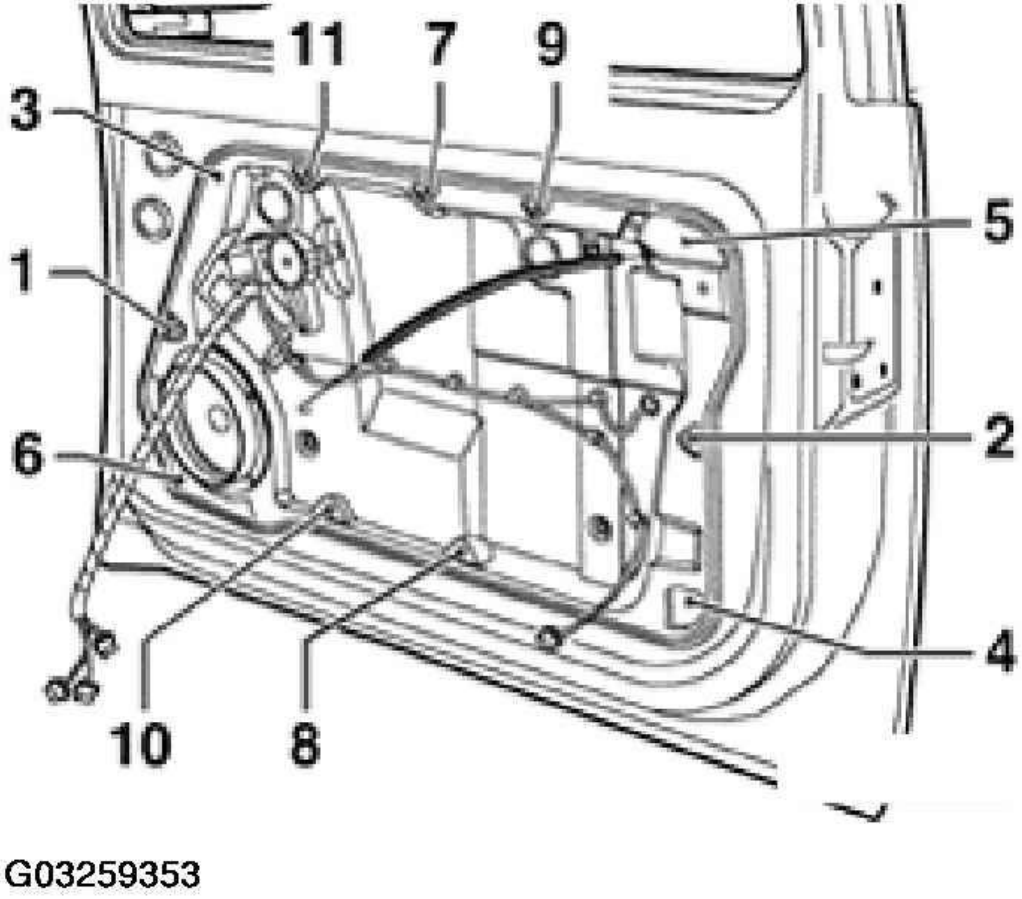
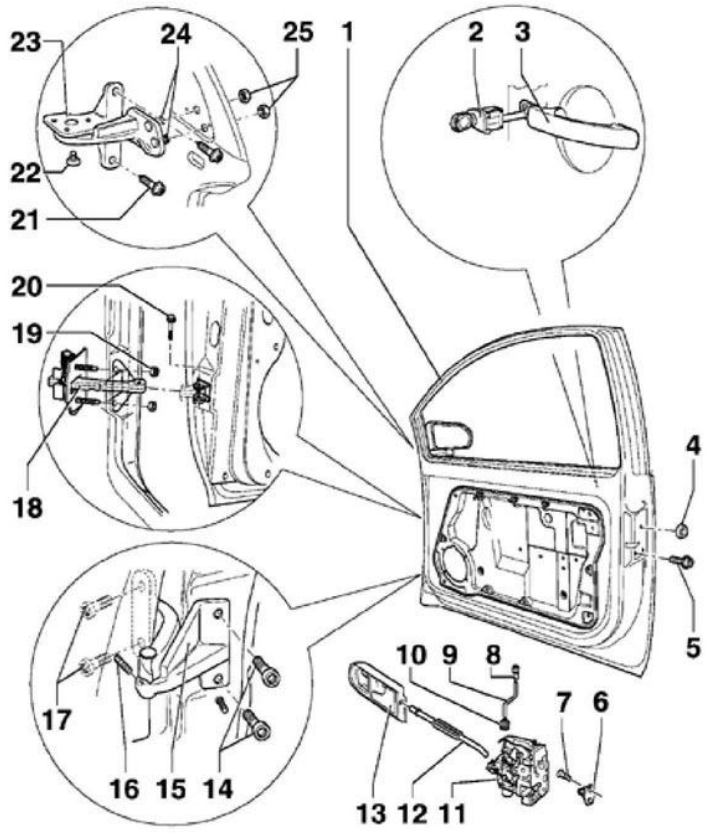


Fig. 12: Removing Assembly Carrier From Door
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Turn mounting plate and remove connector from door lock.

Installing

- Pull lock lever -1- in direction of -arrow-.



1 - Door
2 - Lock cylinder housing
3 - Door handle with base
4 - Cover cap
5 - Bolt/screw
6 - Lock plate
7 - Bolt/screw
8 - Locking button
9 - Locking button
10 - Boot
11 - Door lock
12 - Bowden cable
13 - Interior release handle
14 - Bolt/screw
15 - Door hinge
16 - Grub screw
17 - Bolt/screw
18 - Door arrester
19 - Nut
20 - Pin
21 - Bolt/screw
22 - Bolt/screw
23 - Door hinge
24 - Pin
25 - Nut

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Fig. 13: Identifying Lock Lever Pulling Direction Arrow
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Tension spring -2- which is secured on door lock, in direction of -arrow- with a screwdriver and hook

locking lever into spring.

NOTE: Hooking the operating lever in locks the lock. Incorrectly attaching the Bowden cable later is thereby prevented (lock may move slightly).

- Install mounting plate in door.
- Install all bolts/screws -1- to -11-. Tighten the bolts/screws in the order as they are numbered. Torque setting: 8 N.m.

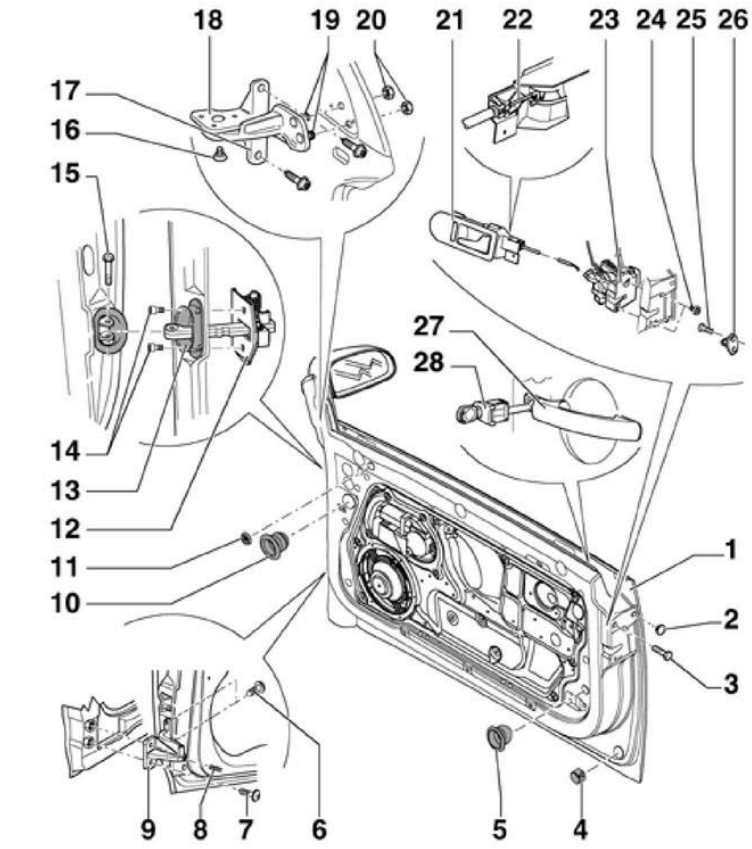


Fig. 14: Installing Assembly Carrier Onto Door
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Push door window -1- into window guide -arrow- and tighten clamps with bolts/screws -2- (10 N.m).

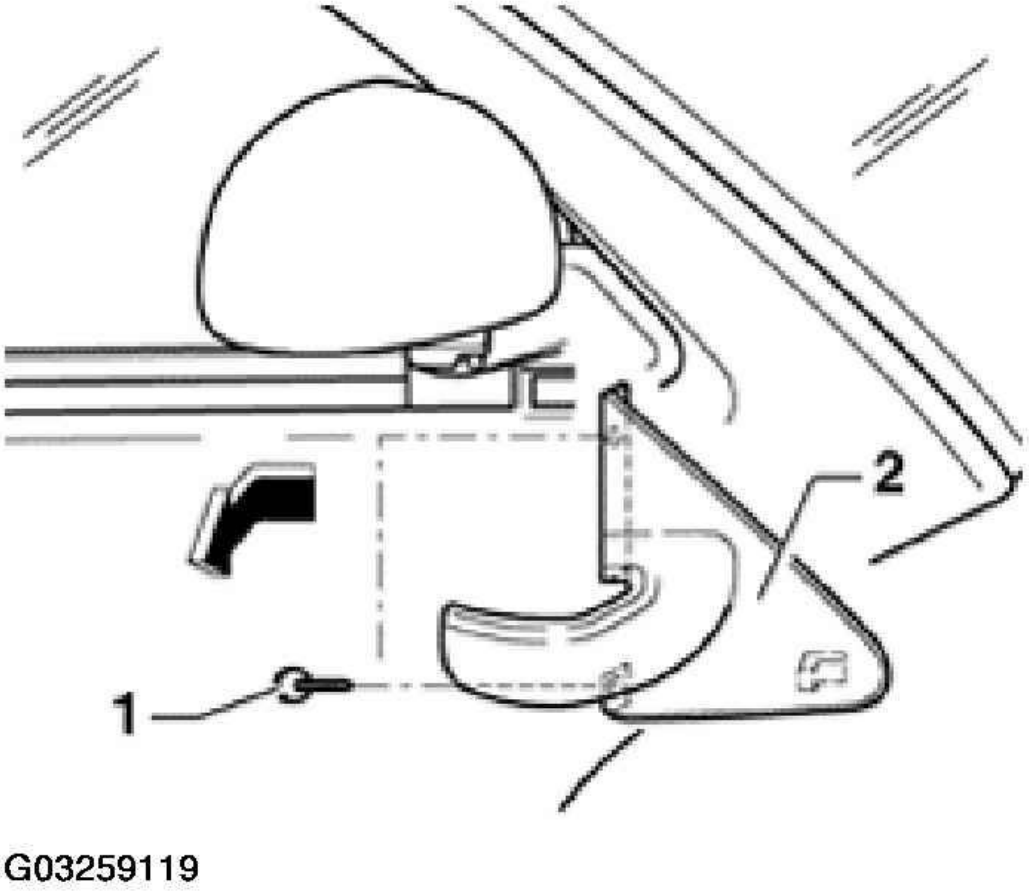


Fig. 15: Pushing Door Window Into Window Guide
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Then perform remaining installation in reverse order.
  - Then perform functional check.

FRONT DOOR WINDOW, ASSEMBLY OVERVIEW (CONVERTIBLE)

NOTE: The following list refers to items in Fig. 16 .

1. **Door**
2. **Door window**
   - Removing, see **FRONT DOOR WINDOW, REMOVING AND INSTALLING (CONVERTIBLE)** .
3. **Front window guide**

- Pushed onto flange.

4. **Window slot outer seal**
   - Secured by spreader rivet -12-.
5. **Plate with threaded holes**
6. **Retainer**
7. **Bolt/screw**
   - 20 N.m.
8. **Bolt/screw**
   - 8 N.m.
9. **Assembly carrier**
   - Removing and installing. See **ASSEMBLY CARRIER, REMOVING AND INSTALLING (CONVERTIBLE)** .
10. **Nut**
11. **Bolt/screw**
    - Qty. 9.
    - 8 N.m.
12. **Spreader rivet**
13. **Window slot inner seal**
    - Pushed onto flange.
14. **Window electric motor**
    - Removing and installing, see **FRONT WINDOW REGULATOR, REMOVING AND INSTALLING (CONVERTIBLE)** .

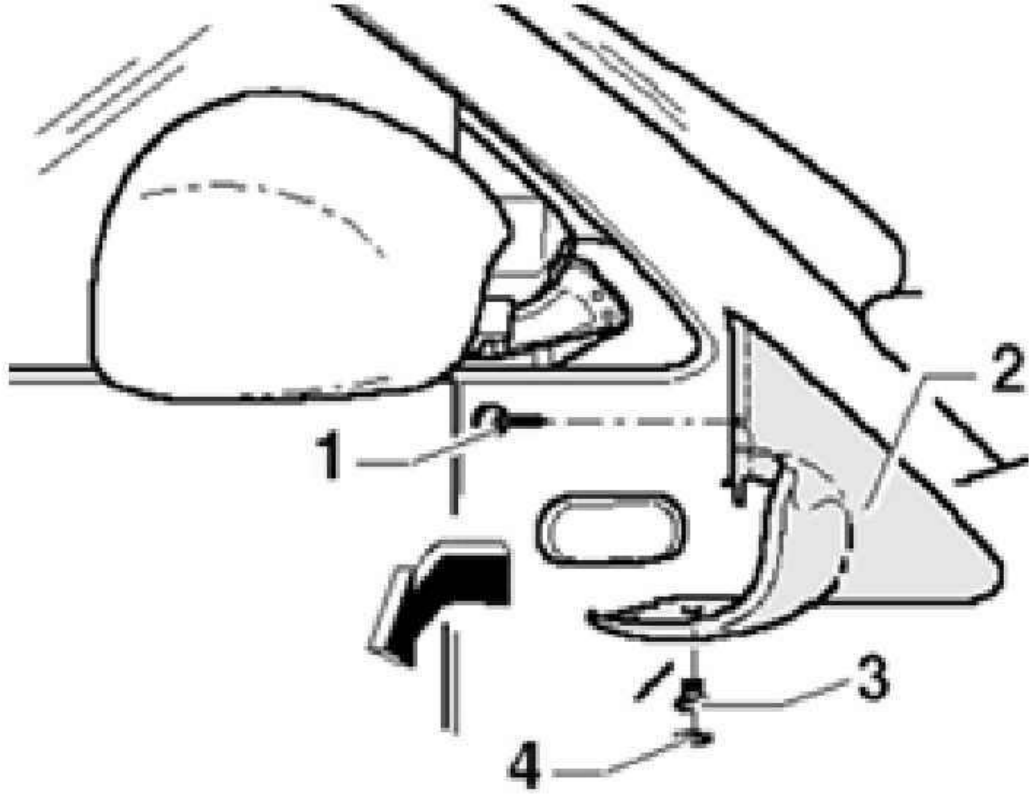


Fig. 16: Exploded View Of Front Door Window Assembly (Convertible)
Courtesy of VOLKSWAGEN OF AMERICA, INC.

FRONT DOOR WINDOW, REMOVING AND INSTALLING (CONVERTIBLE)

Removing

- Remove front door trim.

  See **FRONT DOOR TRIM (CONVERTIBLE), REMOVING AND INSTALLING** .

- Remove window slot inner seal.
- Cover caps -1-.

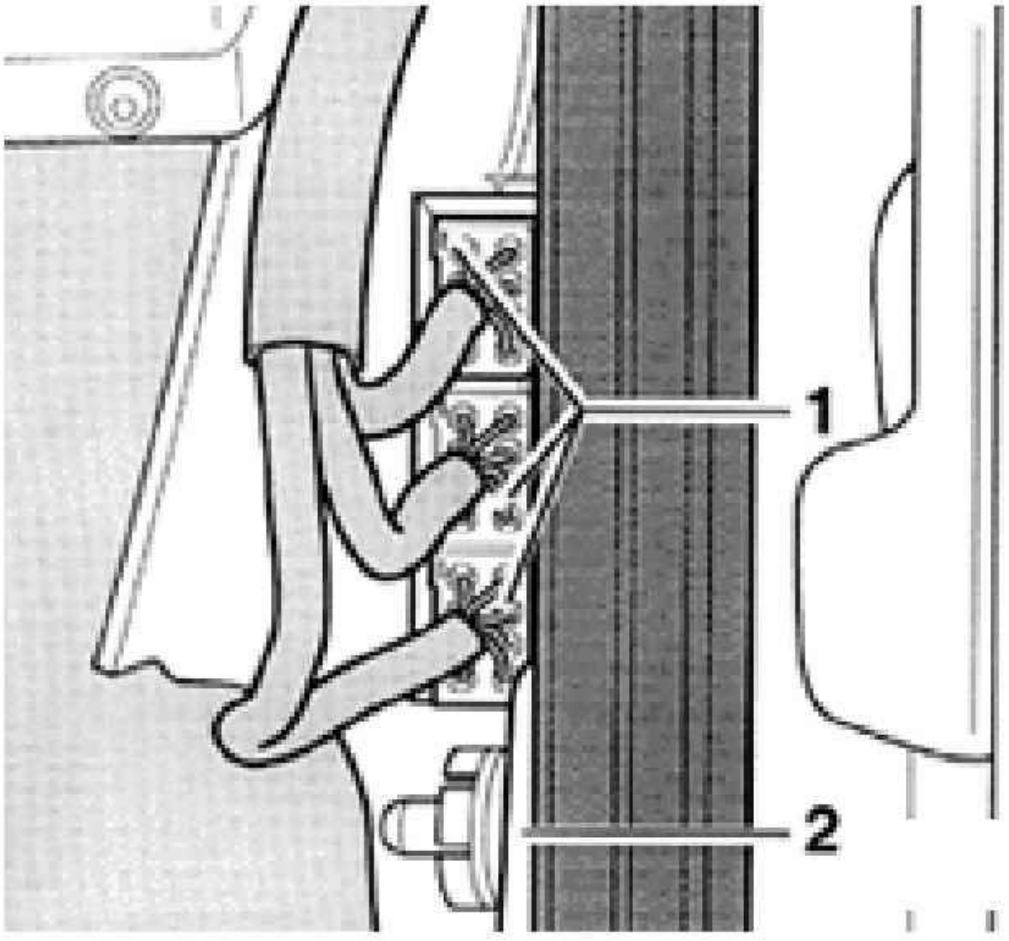


Fig. 17: Removing Cover Caps (Convertible)
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Raise or lower door window -4- until the clamps are accessible in the assembly openings -1-.

NOTE: **If work sequence cannot be carried out because there is a malfunction with electric window motor, remove motor to slide window down. Assembly carrier must be removed for this.**

- Loosen bolts/screws -2- and press clamps apart. See **Fig. 17** .
- Remove bolt/screw -3-.

- Lift door window -1- and pull out toward rear over the slot at door lock.

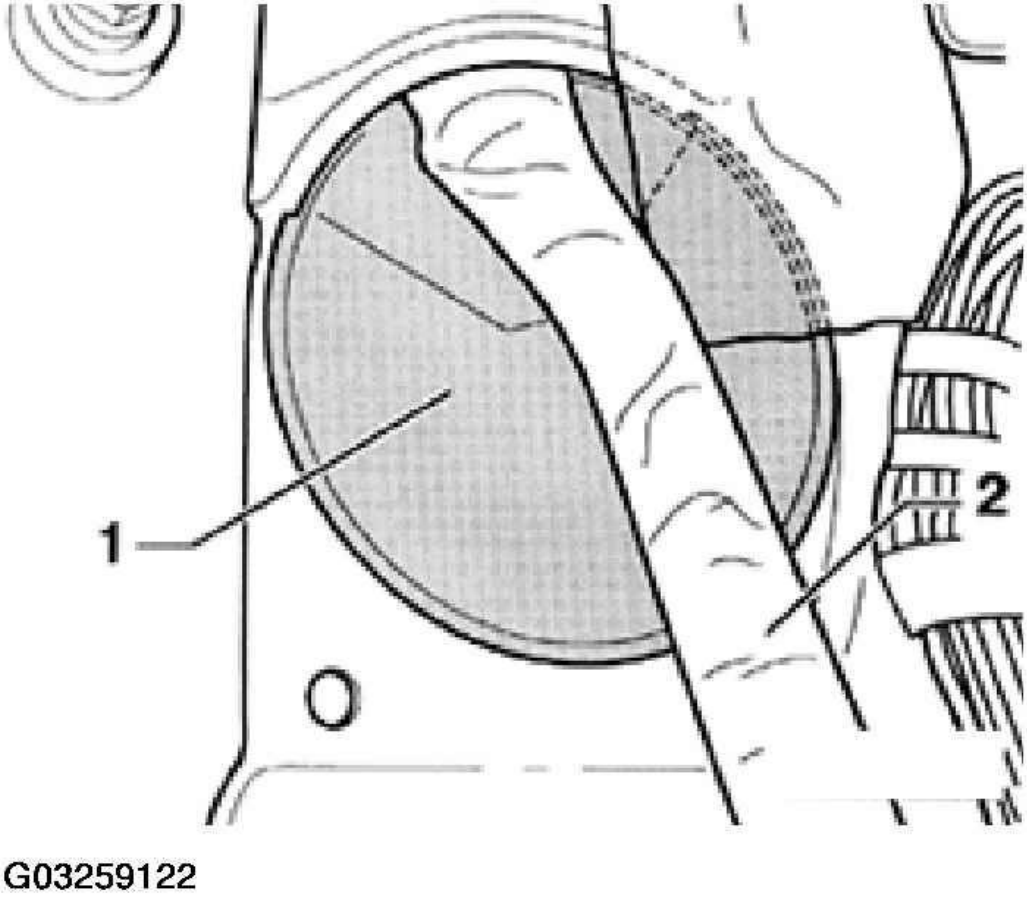


Fig. 18: Lifting Door Window (Convertible)
Courtesy of VOLKSWAGEN OF AMERICA, INC.

Installing

- Slide door window -1- carefully into door slot so that the threaded plate -2- does not fall off.

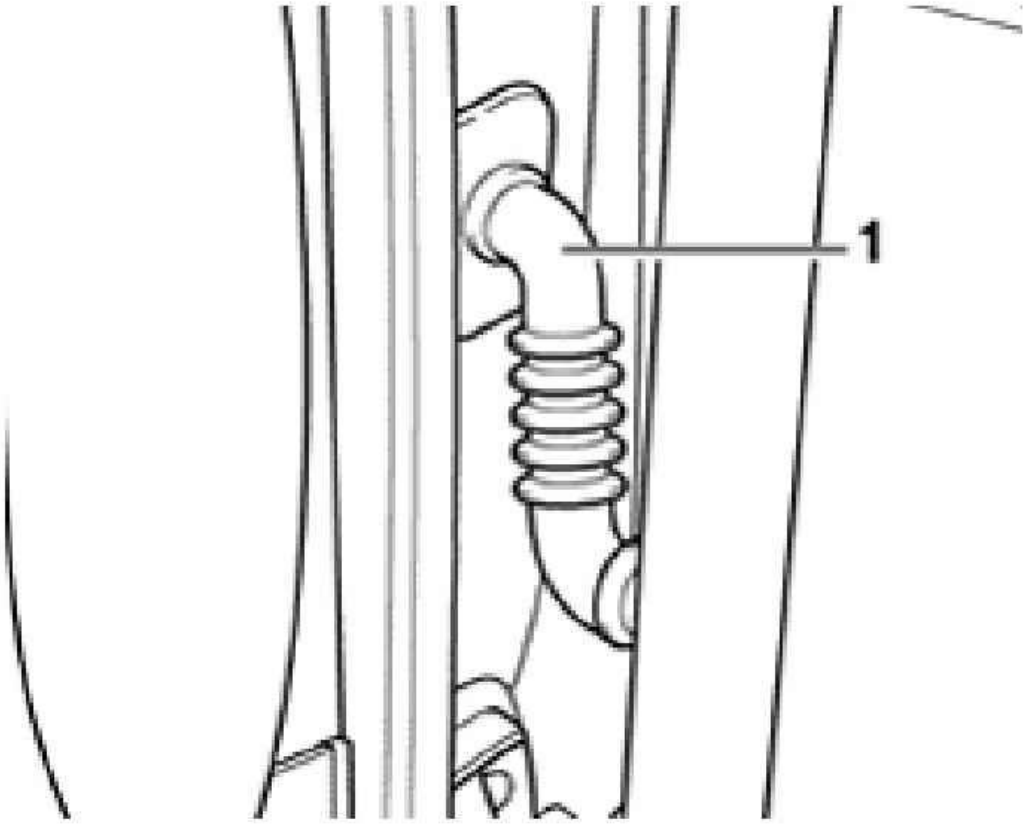


Fig. 19: Installing Door Window (Convertible)
Courtesy of VOLKSWAGEN OF AMERICA, INC.

Install in reverse order of removal.

NOTE:

- **Adjust door window, see DOOR WINDOW, ADJUSTING (CONVERTIBLE) .**
- **Apply locking compound to bolts/screws -2- and -3- before tightening.**

DOOR WINDOW, ADJUSTING (CONVERTIBLE)

- Door adjustment to body and convertible top adjustment to windshield frame are OK.

Adjusting door window to front window guide.

- Door window -4- bolted lightly to window regulator.
- Raise or lower door window until the clamps are accessible in the assembly openings -1-.
- Loosen clamps -2- and -3- and press door window into front window guide -arrow-.
- Tighten clamps, torque setting: 10 N.m.

NOTE:

- **Apply locking compound to bolts/screws -2- and -3- before tightening.**

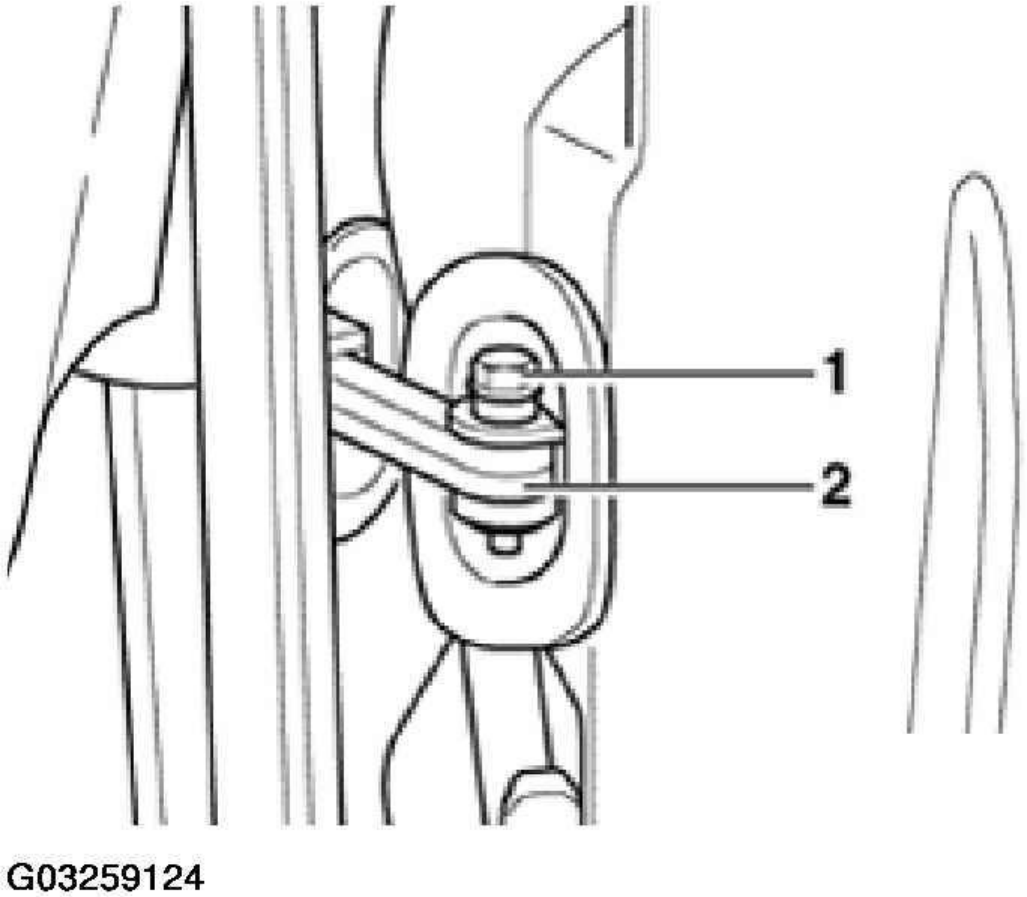


Fig. 20: Adjusting Door Window (Convertible)
Courtesy of VOLKSWAGEN OF AMERICA, INC.

ASSEMBLY CARRIER, REMOVING AND INSTALLING (CONVERTIBLE)

Door lock and loudspeaker are secured to assembly carrier.

Door lock can only be removed in conjunction with assembly carrier.

Removing

- Remove front door trim.

  See **FRONT DOOR TRIM (CONVERTIBLE), REMOVING AND INSTALLING** .

- Remove lock cylinder housing. See **LOCK CYLINDER HOUSING, REMOVING** .
- Unclip clip -1- from door handle.

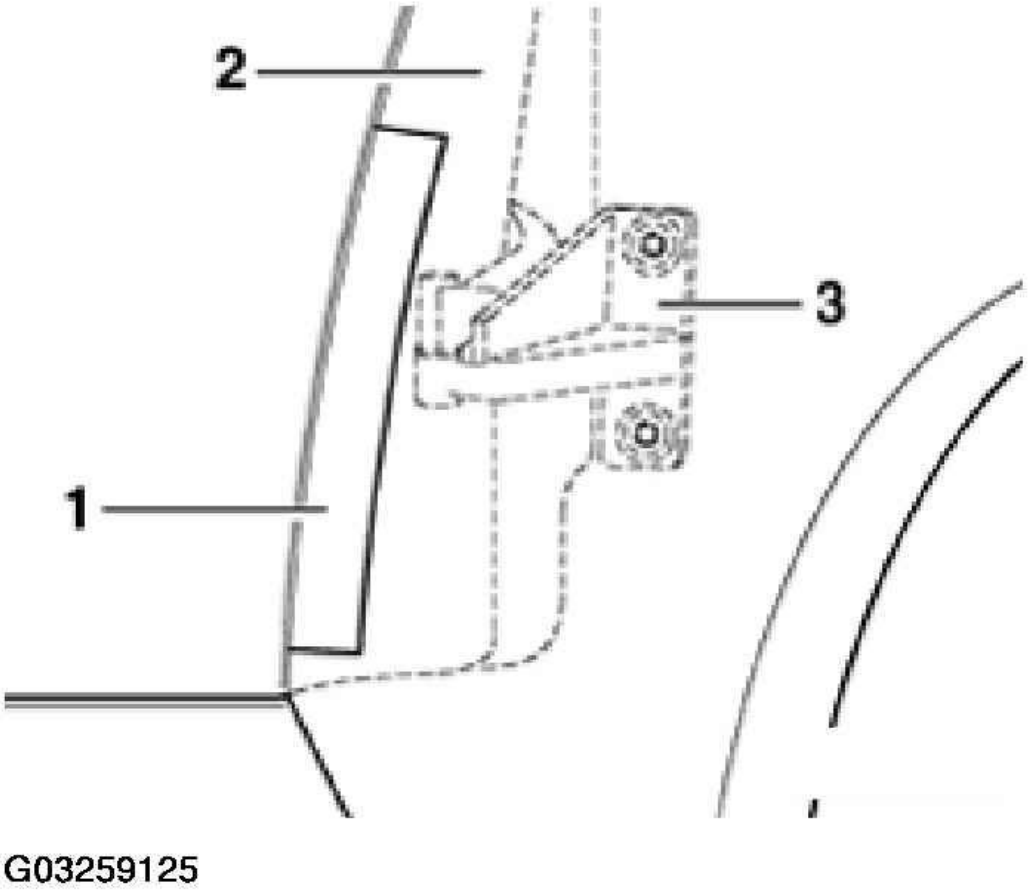


Fig. 21: Removing Clip From Door Handle
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Unscrew bolts/screws -1-. Torque setting: 20 N.m.

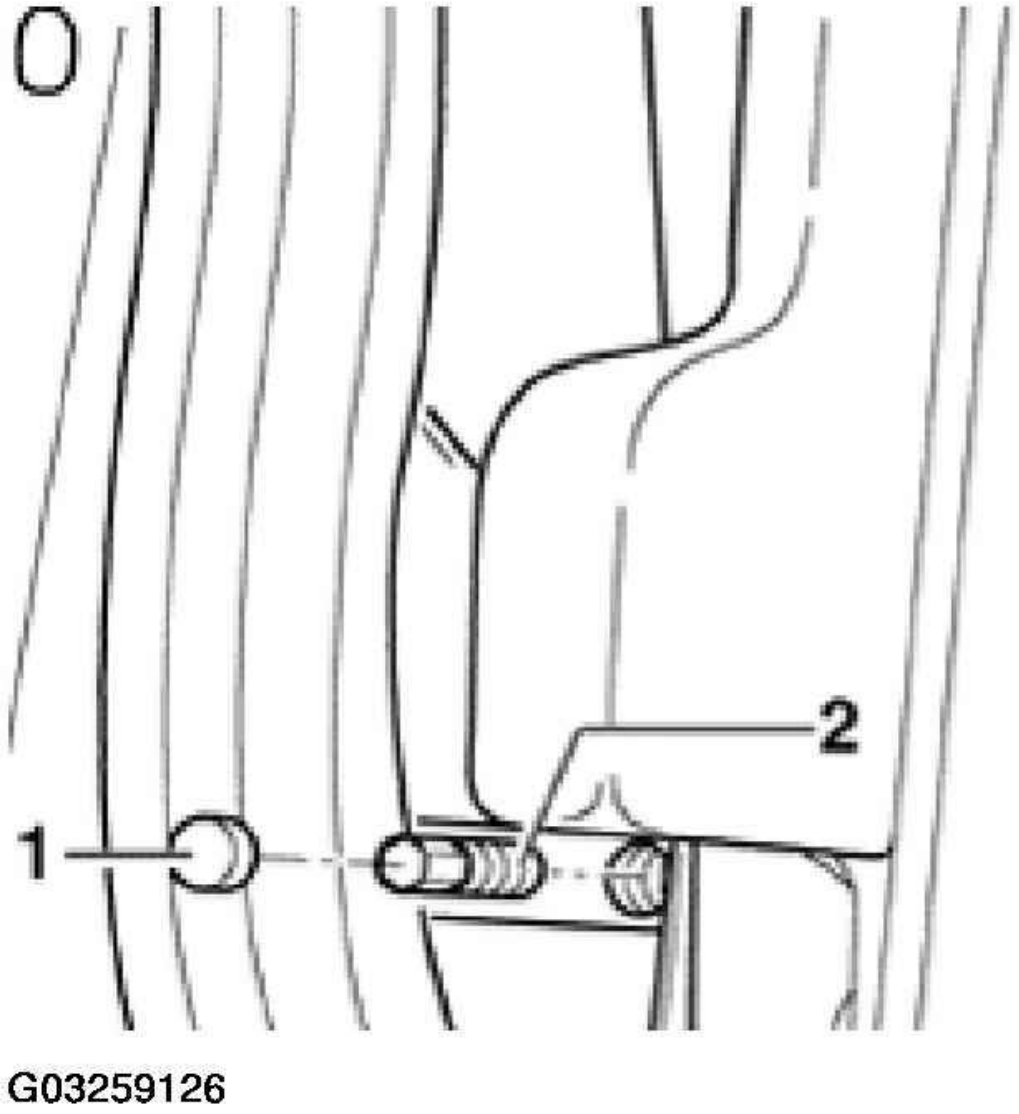


Fig. 22: Removing Door Lock Bolts/Screws
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Unclip wiring harness and disconnect connections -arrows-.

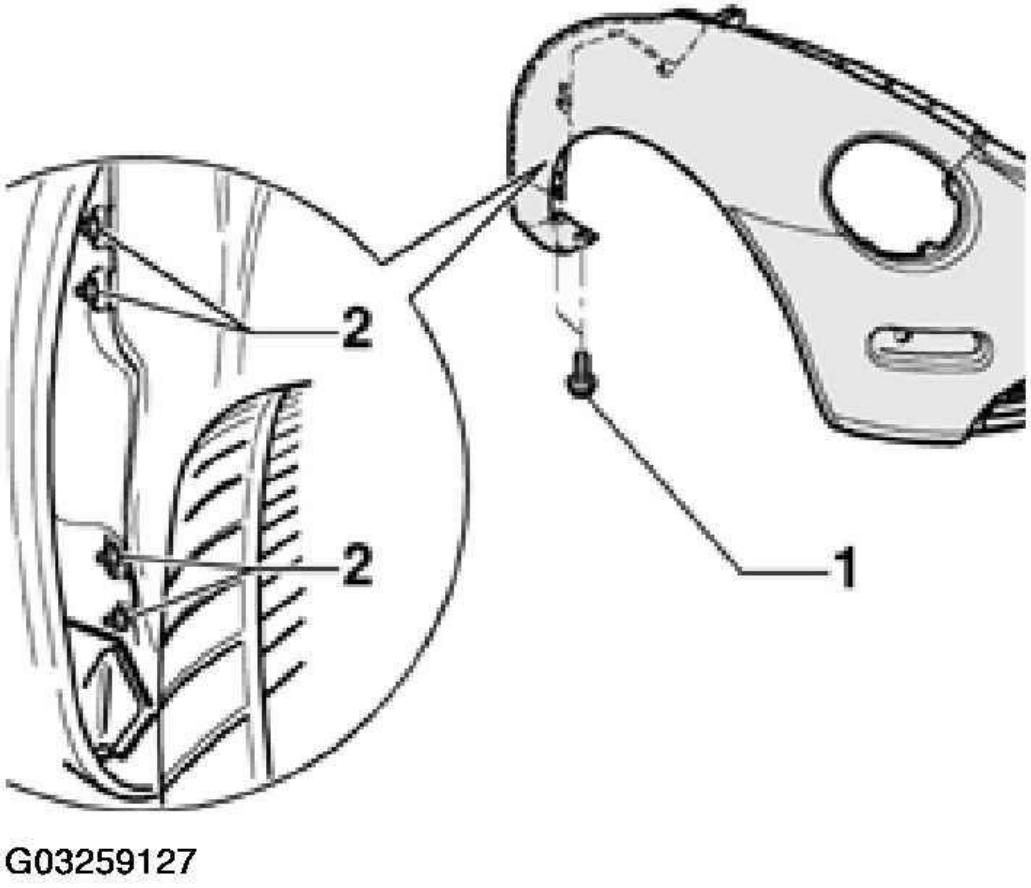


Fig. 23: Locating Wiring Harness And Electrical Connections (Convertible)
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Remove bolts/screws -1-, -3- and nut -2-. Pull top of assembly carrier off door, lift and take out of door toward hinges.
- Turn mounting plate around and disconnect connector from door lock.

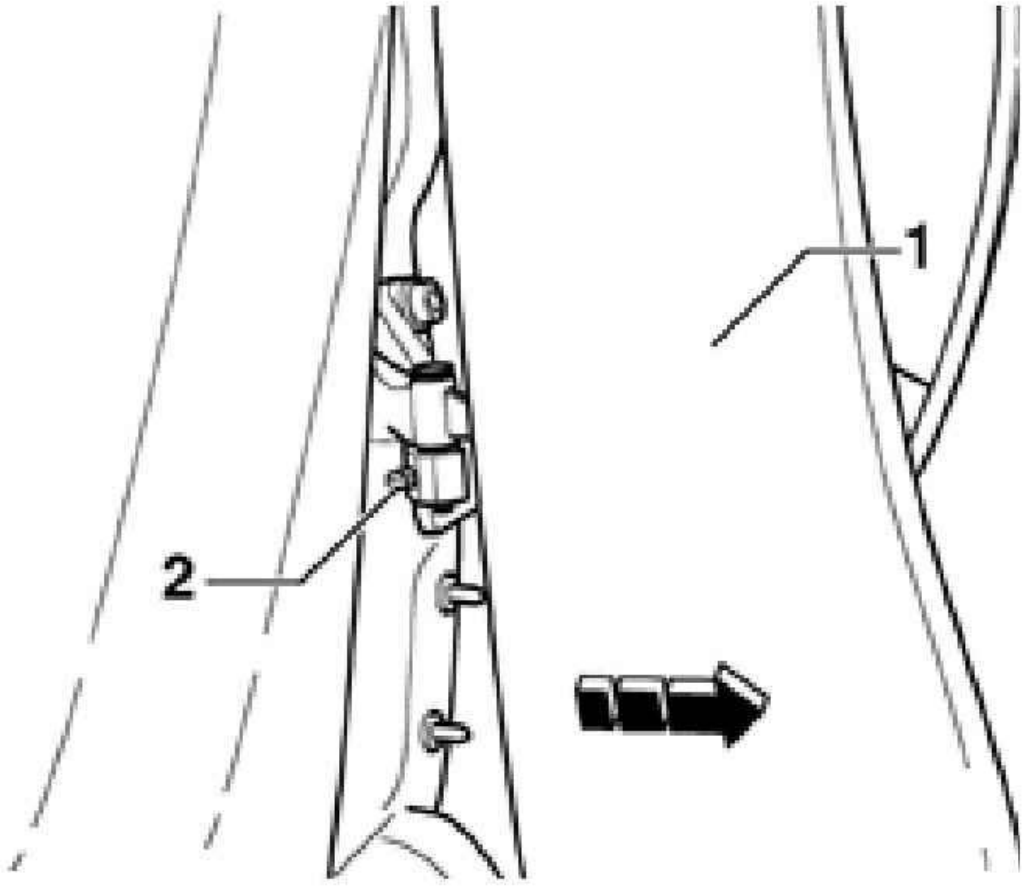


Fig. 24: Turning Mounting Plate Around And Disconnecting Connector From Door Lock
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Pull wiring harness through assembly carrier.
- Unclip clips for electrical wiring on back of mounting plate.

Installing

Install in reverse order of removal.

FRONT WINDOW REGULATOR, REMOVING AND INSTALLING (CONVERTIBLE)

NOTE: The following list refers to items in Fig. 25 .

1. **Door**
2. **Combi-nut**
    - Qty. 4.
3. **Plug**
4. **Door window regulator**
5. **Window electric motor**
6. **Bolt/screw**
    - Qty. 3.

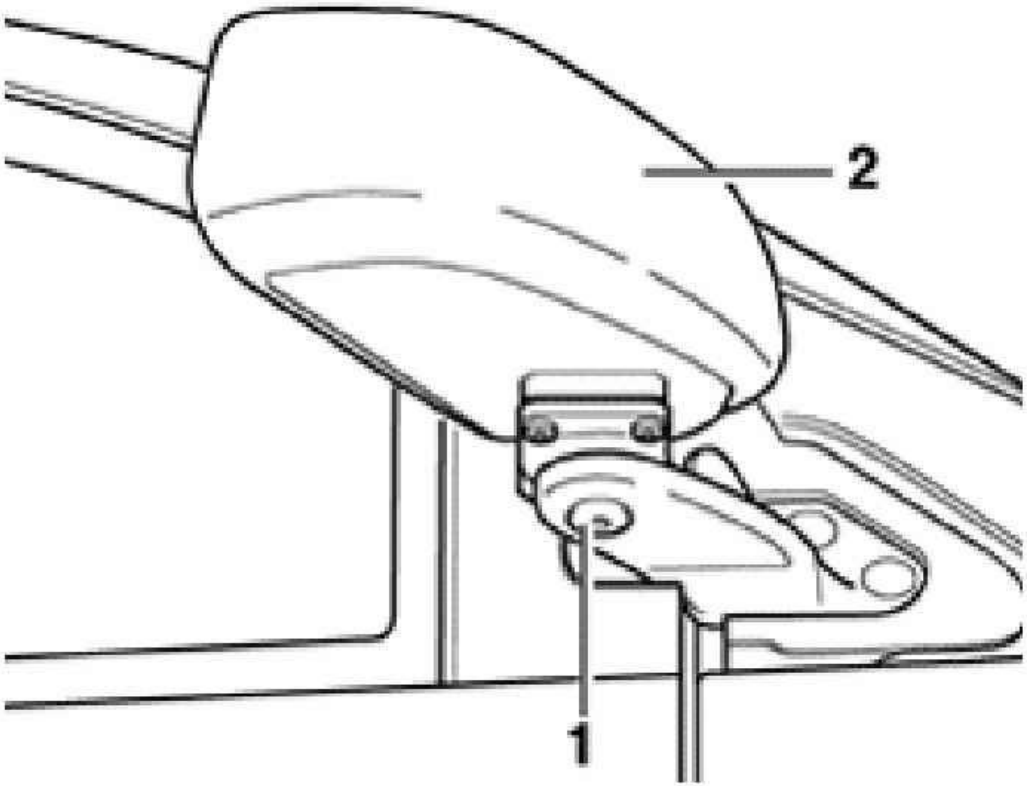


Fig. 25: Front Window Regulator (Convertible)
Courtesy of VOLKSWAGEN OF AMERICA, INC.

Removing

- Remove assembly carrier, see **ASSEMBLY CARRIER, REMOVING AND INSTALLING**

(CONVERTIBLE) .

- Remove door window from window regulator. See, see **FRONT DOOR WINDOW, REMOVING AND INSTALLING (CONVERTIBLE)** .
- Unbolt window regulator motor -5- from window regulator. See **Fig. 25** .
- Remove plugs -3-.
- Remove combi-nut -2-.
- Unclip window slot cable.
- Move window regulator to center of door and remove.

Installing

Install in reverse order of removal.

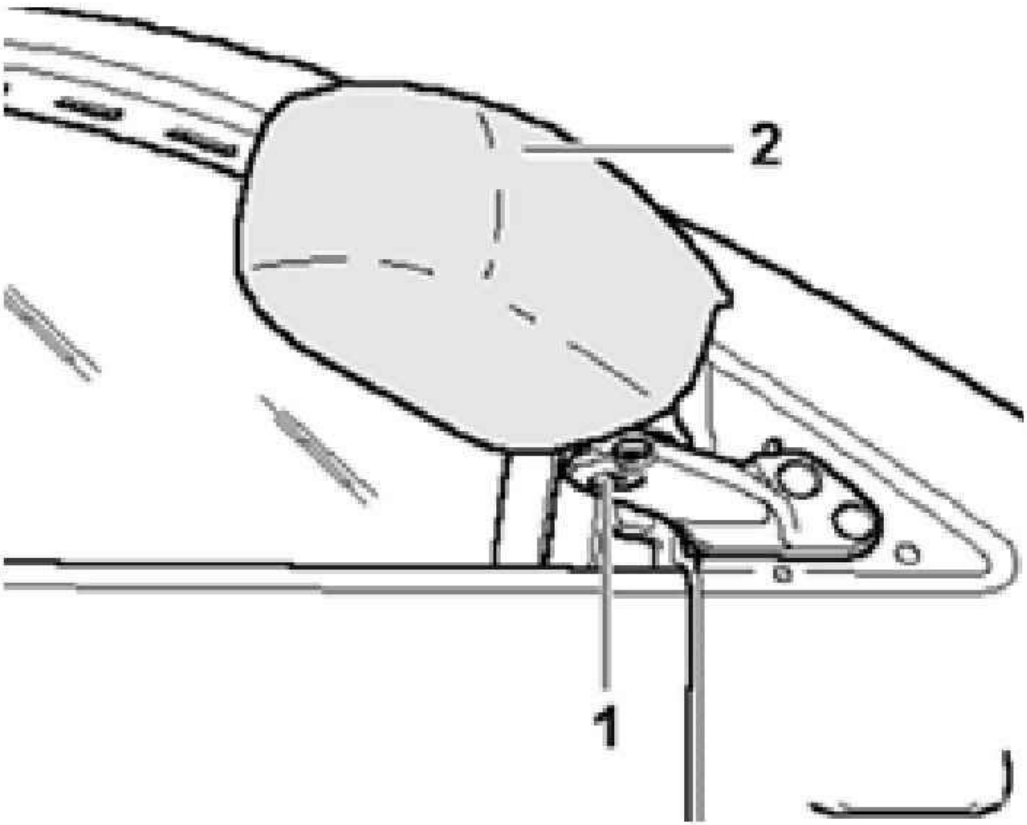


Fig. 26: Front Window Regulator (Convertible)
Courtesy of VOLKSWAGEN OF AMERICA, INC.

POWER WINDOWS WITH CONVENIENCE SYSTEM (AUTOMATIC OPENING AND CLOSING) WITH FORCE LIMITATION INTERVENTION (FLI).

With introduction of convenience system for power windows, window regulators are additionally equipped with an automatic opening and closing feature.

Switches for front window automatic opening and closing functions are located in driver's door controls unit. Switches for driver's and front passengers door are equipped with a two level function.

If respective switch is pushed or pulled to first detent front window will open or close as long as switch is held ("manual") in respective position or end position is reached.

If respective switch is briefly pushed or pulled fully onto second detent window will automatically open or close fully.

There is also a switch in front passenger's door for front passenger's door window but this is not equipped with two level function.

All power windows are equipped with an force limitation intervention (FLI) system. Closing the window will bee automatically terminated when an object blocks the closing window.

This is not the case when closing the window from the outside with an ignition key, force limitation intervention (FLI) is inoperative using this method.

Function of window regulator with ignition switched on.

Opening

Switch in driver's door

- Press front section of switch down to first detent. Window will open as long as the switch is being operated.
- Press front section of switch down briefly to second detent. Window will open automatically (automatic fully opening system).
- If the switch is operated again the window will stop immediately.

Switch in front passenger's door

- Press lower surface of switch. Window will open as long as the switch is being operated.

Closing

Switch in driver's door

- Pull front section of switch up to first detent. Window will close as long as switch is being operated.
- Pull front section of switch up briefly to second detent. Window will close automatically (automatic fully

closing system).

- If switch is operated again window will stop immediately.

Switch in front passenger's door

- Press upper surface of switch. Window will close as long as switch is being operated.

Function of window regulator with ignition switched off.

Window regulators can be operated for approx. 10 minutes after switching ignition off, as long as driver's or front passenger's door have not been opened.

Automatic closing function is inoperative when closing front windows.

If driver's or front passenger's door window meets excessive resistance or an object during the closing sequence (force limitation intervention (FLI)) the window will open again immediately.

In this case window can only be closed again with ignition switched on.

Windows can also be opened or closed from the outside on models with central locking or the convenience central locking system. Key must only be held in lock cylinder in the lock or unlock position.

Setting automatic opening and closing

NOTE: Automatic opening and closing features for driver's and front passenger's power windows do not function after disconnecting and reconnecting the vehicle battery.

Proceed as follows to reinstate this feature after reconnecting vehicle battery.

- Lock vehicle (from outside) at driver's or front passenger's door.

  When doing this make sure that all doors and windows are closed completely.

- Unlock vehicle again (from outside) at driver's or front passenger's door. When doing this hold key for at least one second in lock position.

Automatic opening and closing function for driver's and front passenger's door windows is reactivated.

If power window system is malfunctioning this is indicated by the switch illumination in the driver's front passenger's door flashing.

All lights in the door trim will flash for approx. 15 seconds after switching on ignition.

DIFFICULTIES IN WINDOW UPPER AREA WITH FORCE LIMITATION INTERVENTION SYSTEM (FLI), OVERRIDING

- Prerequisite: Automatic opening and closing is OK.
- Ignition switched on

- Close door window with power window switch (automatic closing).

  If driver's or front passenger's door window is impeded because it is tight or through an object during the closing sequence (force limitation intervention (FLI)) window will open again immediately.

- After the window has opened the respective window switch must be lifted or press and held in this position within 5 seconds.

  If window is impeded again because it is tight or through an object during the closing sequence the window will stop immediately (force limitation intervention (FLI)).

- After window has stopped, switch must be operated again within 5 seconds to close the window.

The window will now close (beyond the obstruction) without force limitation intervention .

- Ignition switched off

If the driver's or front passenger's door window is impeded because it is tight or through an object during the closing sequence (force limitation intervention (FLI)) the window will open again immediately.

Operations using the interior power window switch is now blocked.

If within one minute of opening the window the ignition is switched on and the switched press (close window), the window will be closed without the automatic closure function.

SIDE WINDOW (CONVERTIBLE), ASSEMBLY OVERVIEW

NOTE: The following list refers to items in Fig. 27 .

1. **Carrier plate with window electric motor**
2. **Hex bolt**
   - 10 N.m.
3. **Door window retaining plate**
4. **Torx(R) screw**
   - 10 N.m.
5. **Window slot inner seal**
   - Pushed onto flange
6. **Combi-nut**
7. **Adjuster**
8. **Washer**

9. **Spacer disk**
10. **Bracket for side window**
11. **Spacer disk**
12. **Spacer disk**
13. **Nut**
14. **Side window**
    - Removing, see **SIDE WINDOW, REMOVING AND INSTALLING** .
    - Adjusting, see **SIDE WINDOW, ADJUSTING** .
15. **Clamping nut**
16. **Adjuster for side inclination**
17. **Window electric motor**
    - Removing and installing. See **WINDOW ELECTRIC MOTOR, REMOVING AND INSTALLING** .
18. **Combi-nut**
    - 20 N.m.

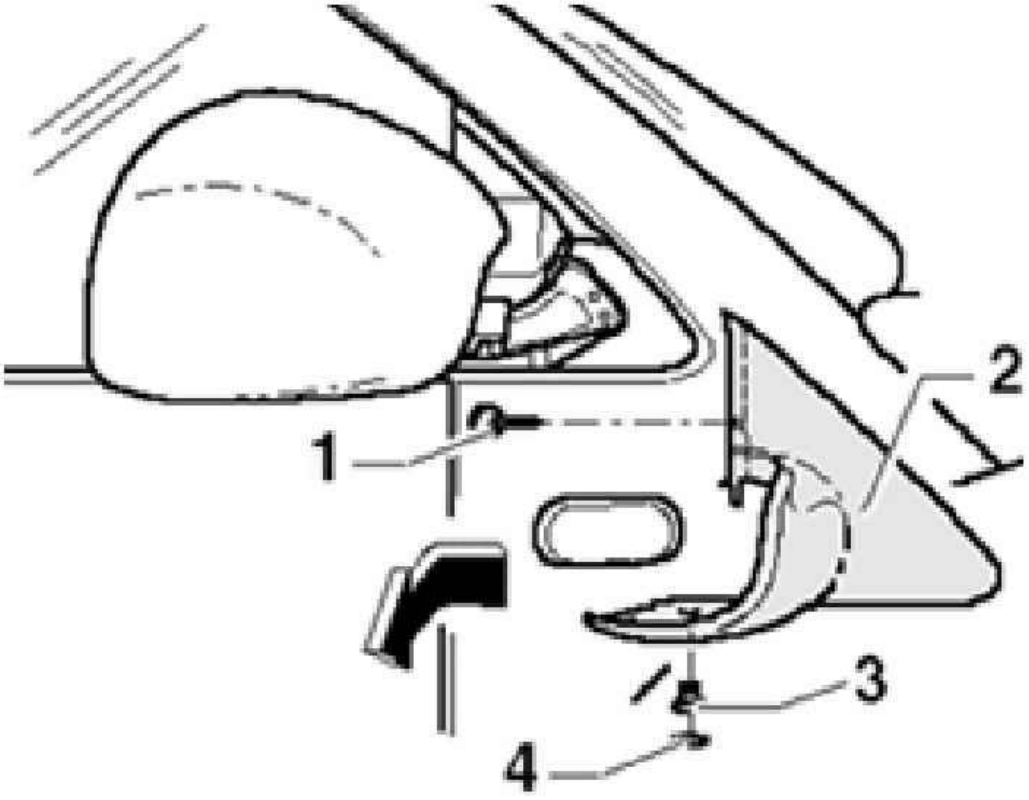


Fig. 27: Exploded View Of Side Window Assembly (Convertible)
Courtesy of VOLKSWAGEN OF AMERICA, INC.

SIDE WINDOW, REMOVING AND INSTALLING

Removing

- Open canopy
- Remove side trim panel.

  See **SIDE PANEL TRIM, REMOVING AND INSTALLING (CONVERTIBLE)** .

- Remove bolts -2- securing loudspeaker

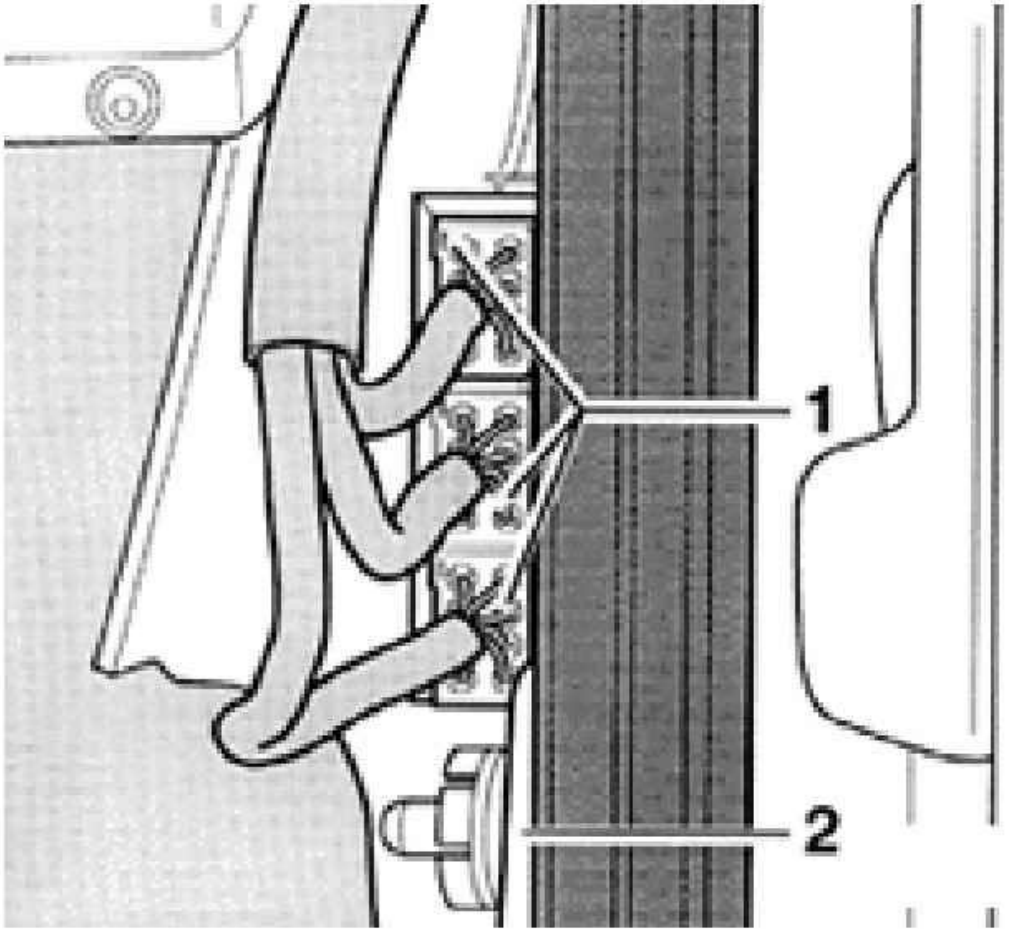


Fig. 28: Locating Bolts Securing Loudspeaker
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Pull loudspeaker away from side panel
- Disconnect electrical connection from power window motor
- Pull window motor harness and grommet out of loudspeaker housing.
- Remove loudspeaker.
- Remove window slot inner seal.
- Remove upper retaining plate.

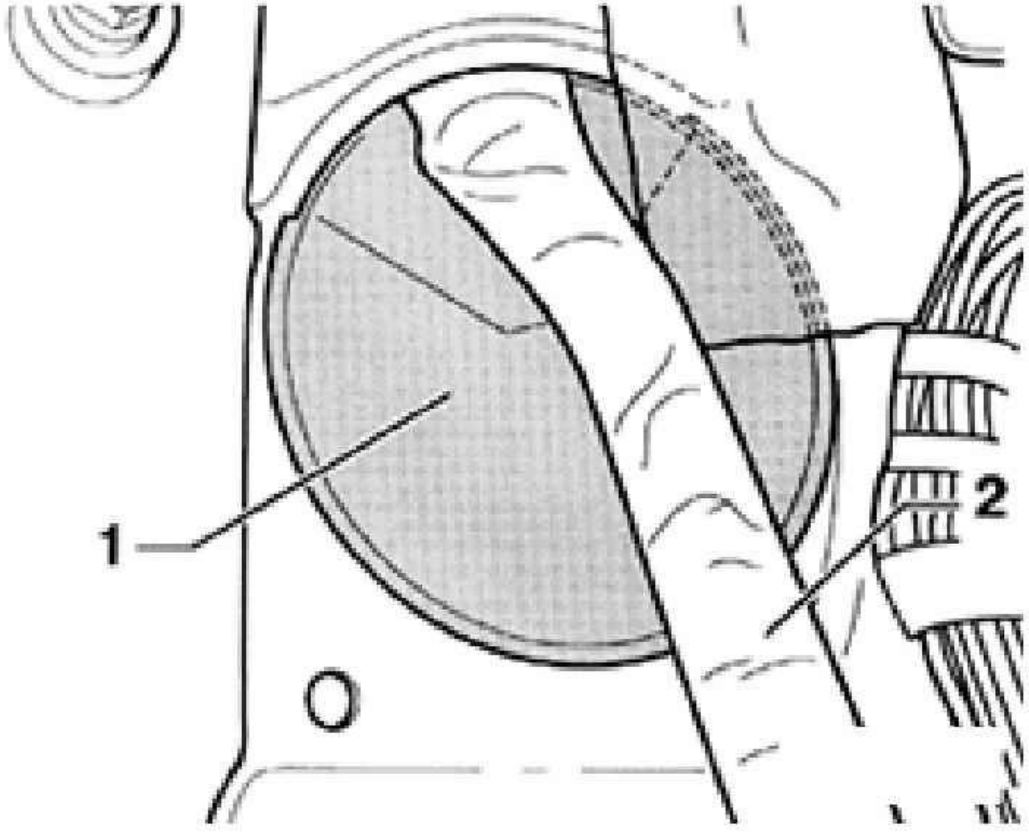


Fig. 29: Removing Upper Retaining Plate
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Temporarily connect side window motor
- Raise side window until the combi-nuts are visible in the assembly openings -arrow-.
- Remove combi-nuts.

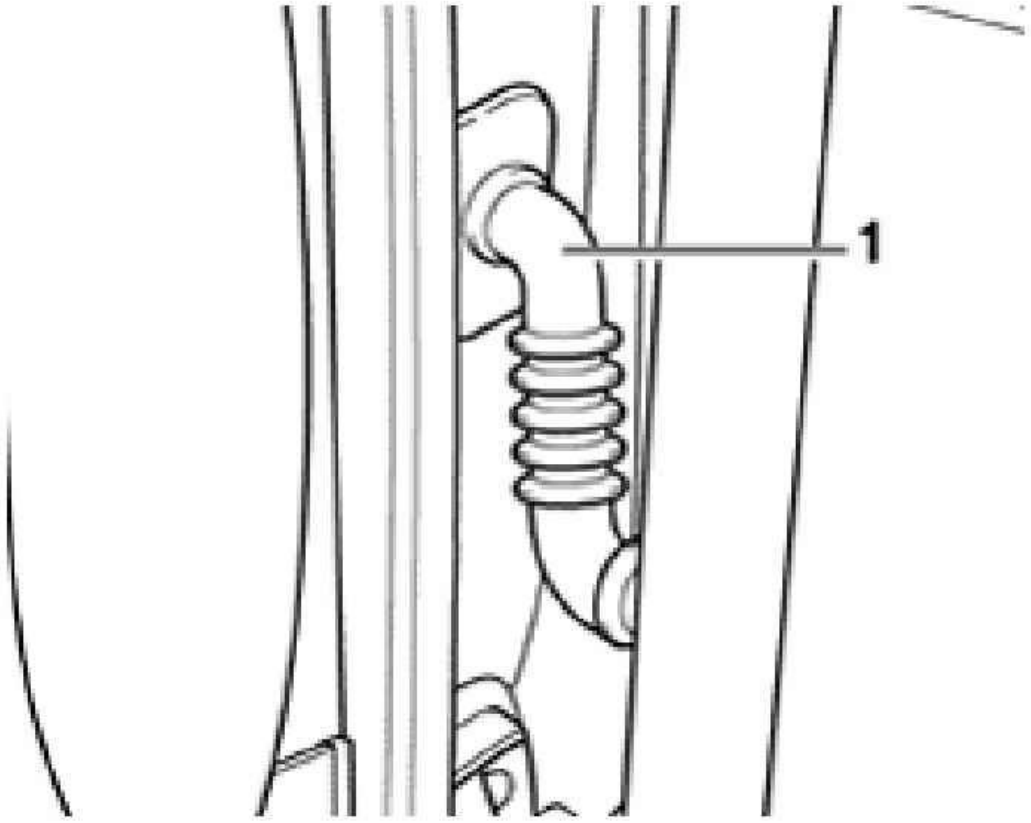


Fig. 30: Removing Combi-Nuts
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Lower door window to approx. central position until combi-nuts are visible in the assembly openings -arrow-.
- Remove combi-nut.

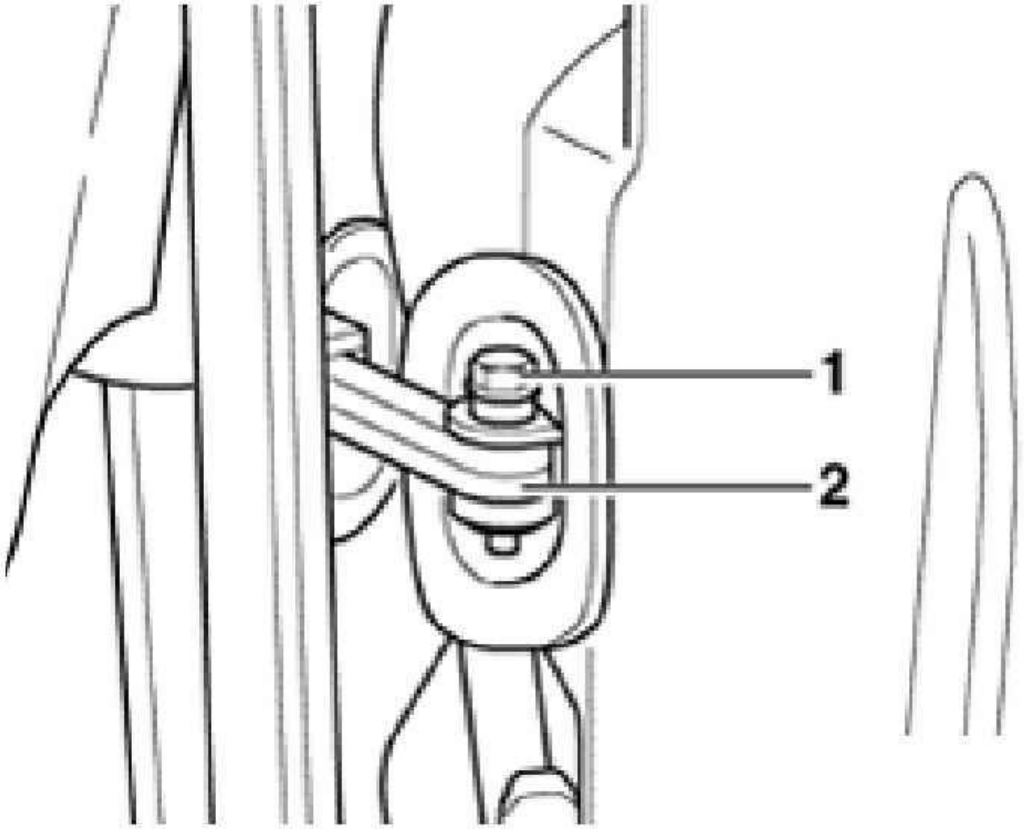


Fig. 31: Removing Side Window Combi-Nut
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Tilt side window toward interior (inward) and remove upward out of window slot.

Installing

Install in reverse order of removal.

NOTE: Check adjustment of side window during assembly.

SIDE WINDOW, ADJUSTING

- Side trim, loudspeaker removed and canopy closed.

NOTE:

- **It is essential to make sure that conciseness of joints/shut lines is guaranteed between door window and side window.**
- **If the side inclination (distance) is not correct this can be corrected via adjuster on carrier plate.**

- Lower/rise side window to approx. central position until the combi-nut is visible in the assembly opening -arrow-.
- Loosen combi-nut.

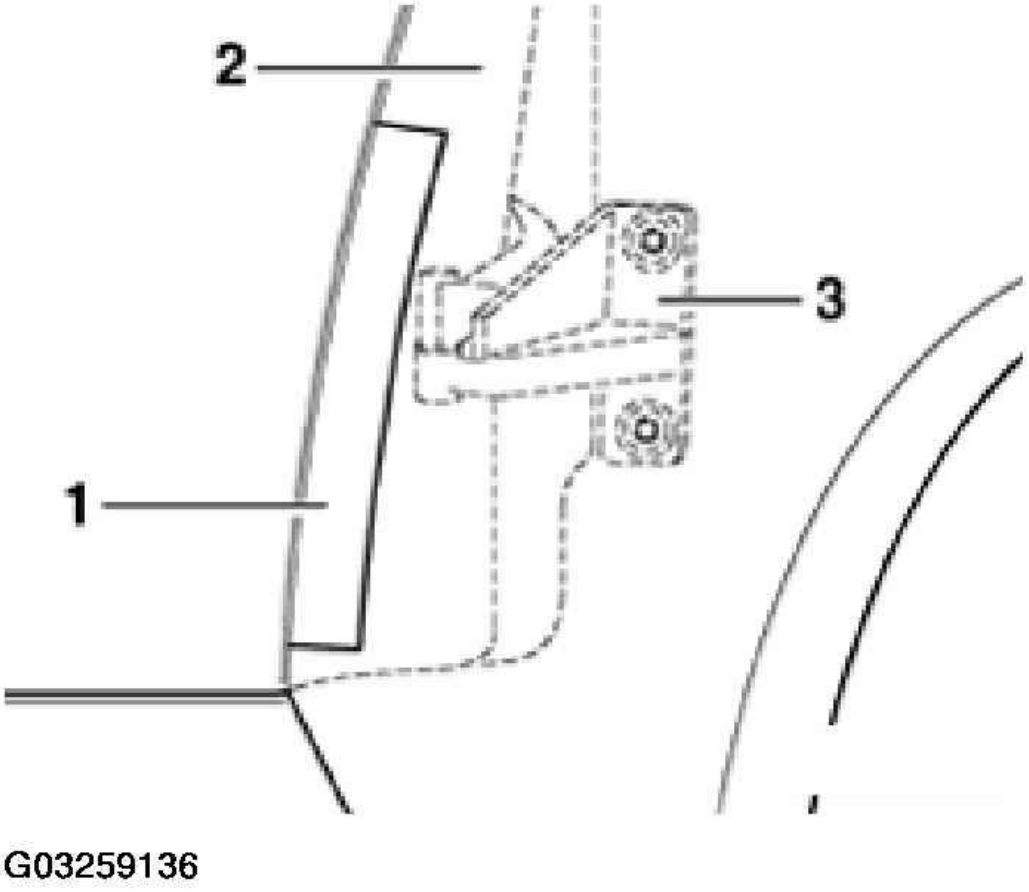


Fig. 32: Loosening Side Window Combi-Nut
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Raise door window until the combi-nut is visible in the assembly opening -arrow-.
- Loosen combi-nuts.

NOTE: The side window can now be moved up and down as well as forward and back.

- Align side window -2- parallel with door window -1-. Dimension -A- = 9 mm.

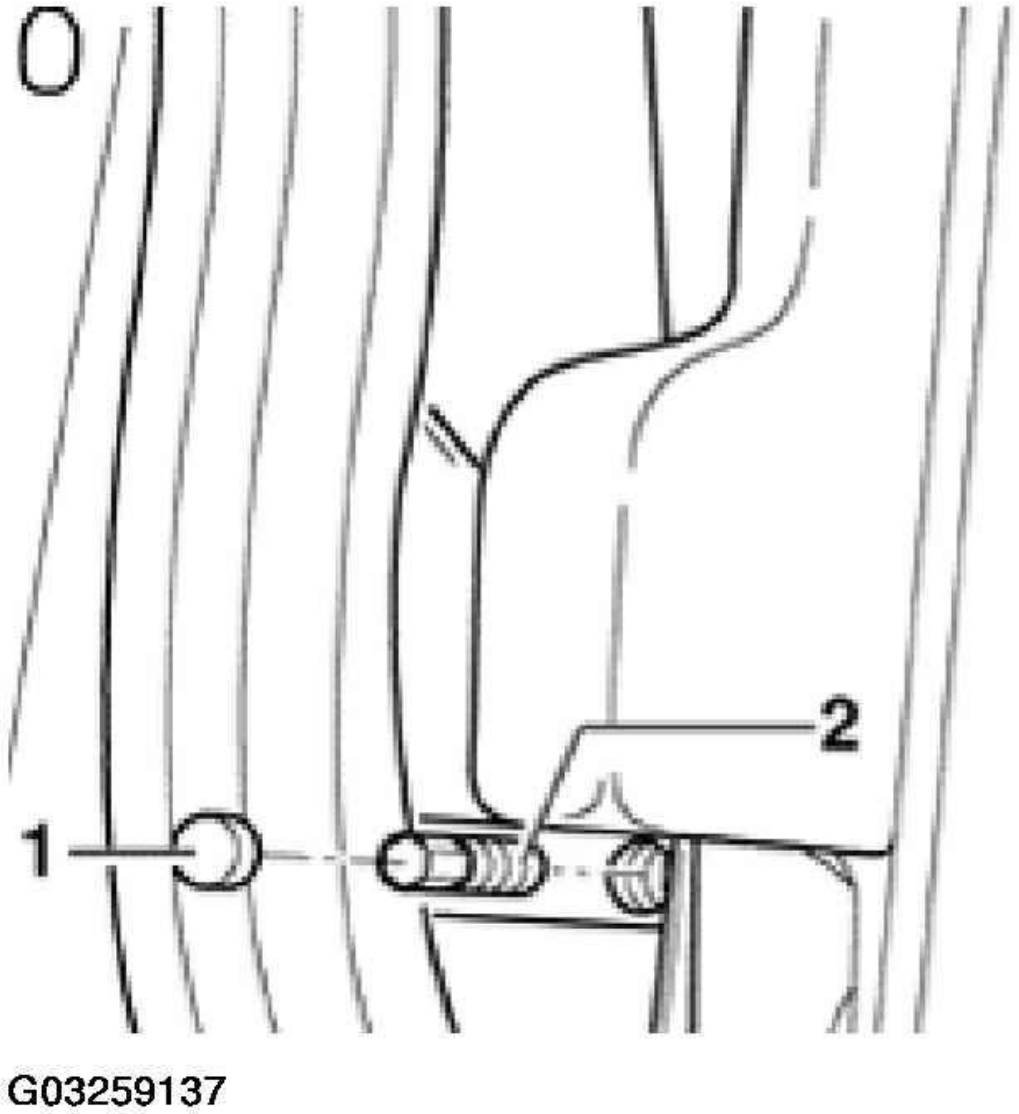


Fig. 33: Loosening Combi-Nuts
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Press side window lightly into window guide -arrow B-.

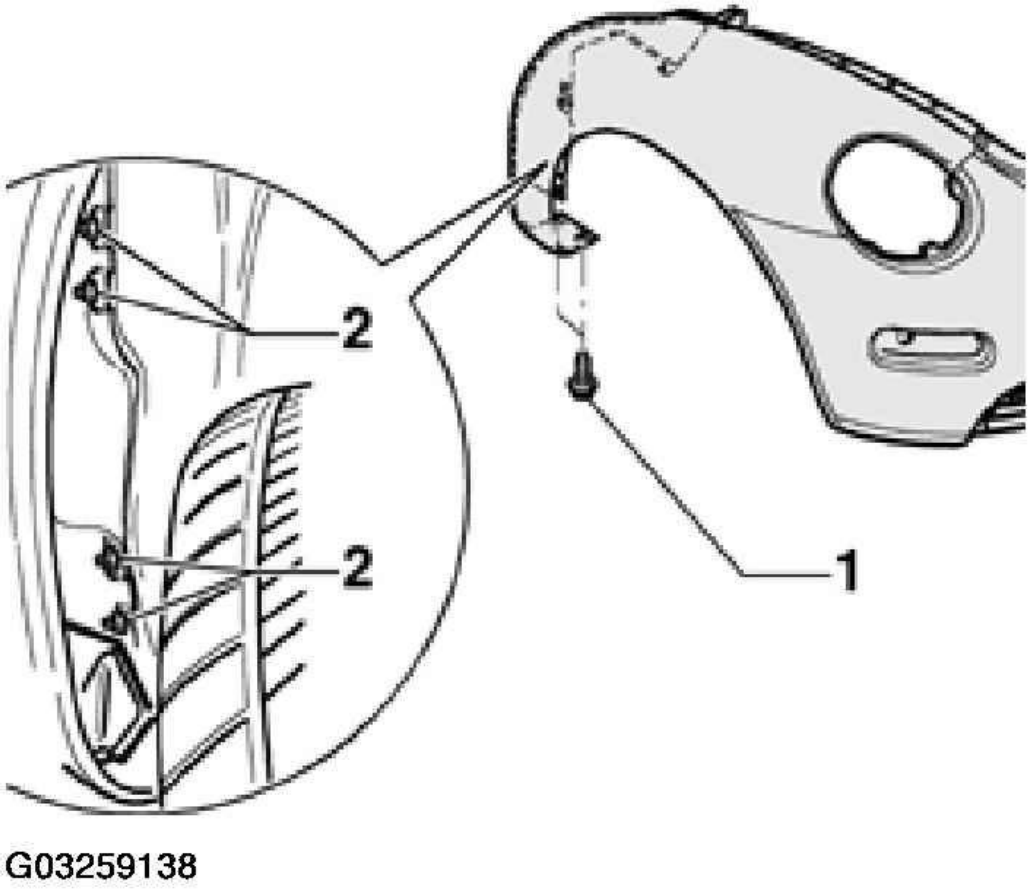


Fig. 34: Pressing Side Window Lightly Into Window Guide
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Tighten combi-nuts (20 N.m) through assembly opening -arrow-.

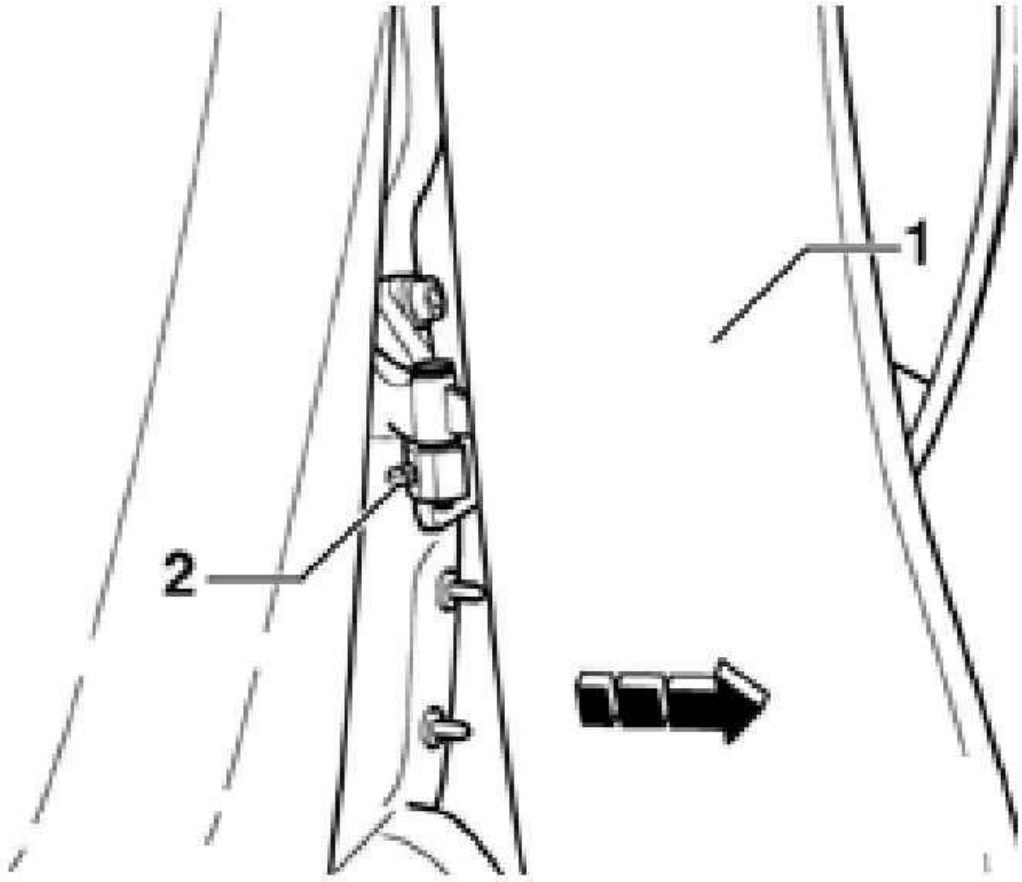


Fig. 35: Tightening Combi-Nuts Through Assembly Opening
Courtesy of VOLKSWAGEN OF AMERICA, INC.

Adjusting side inclination (distance)

NOTE: The side window must be installed.

- Remove window slot inner seal.
- Remove bolts/screws -1-.

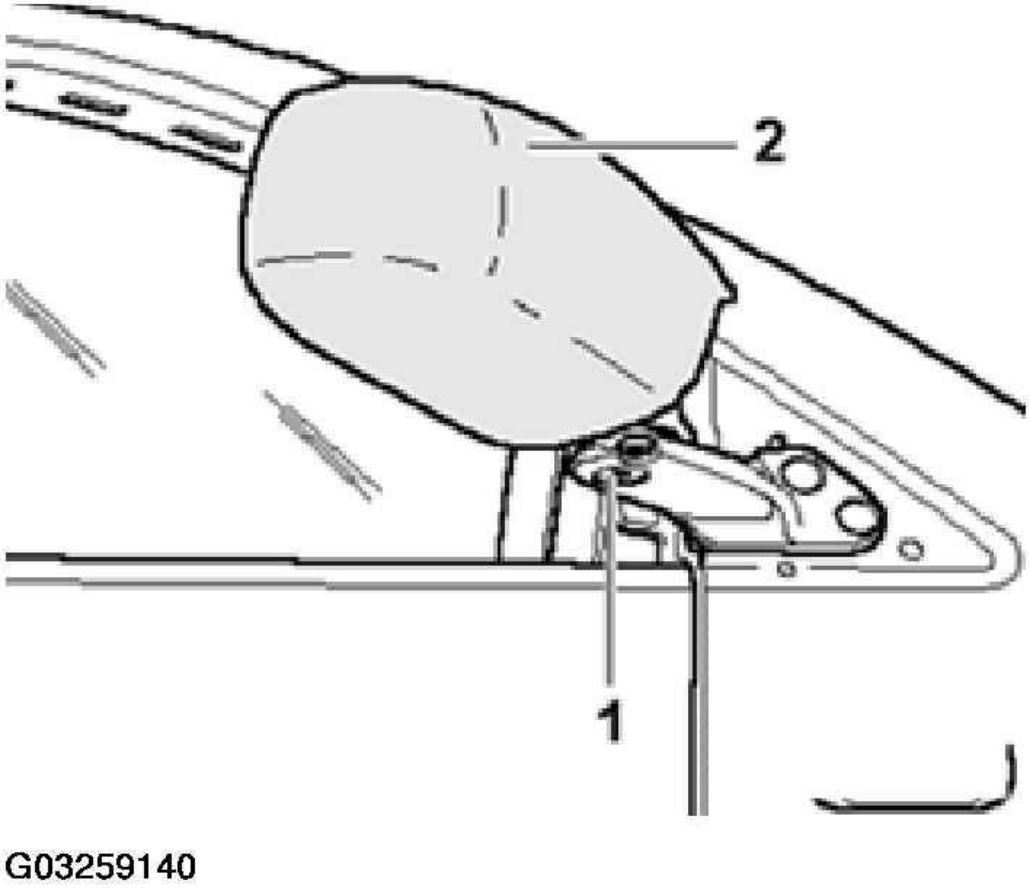
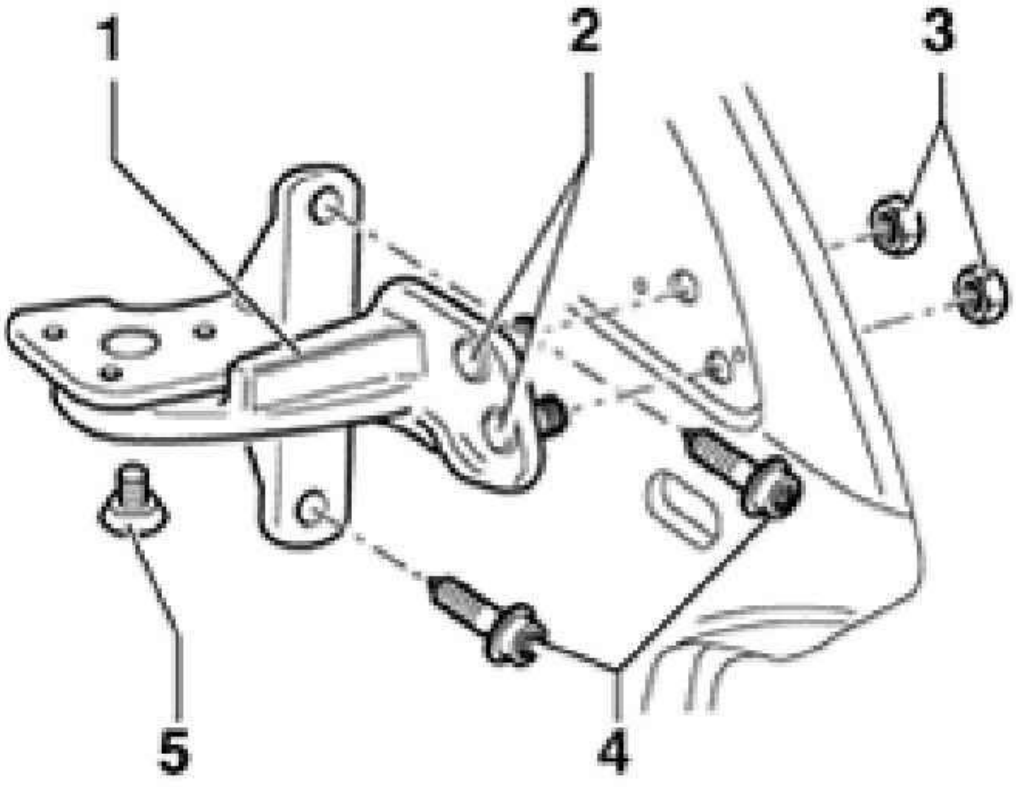


Fig. 36: Removing Window Bolts/Screws
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Lower door window to approx. central position until the combi-nut is visible in the assembly opening -arrow-.
- Tighten combi-nut.
    - Then perform functional check.



1 - Door hinge.

2 - Threaded stud.

3 - Nut (20 Nm + 90°).

4 - Bolt (20 Nm + 90°).

5 - Bolt (27 Nm).

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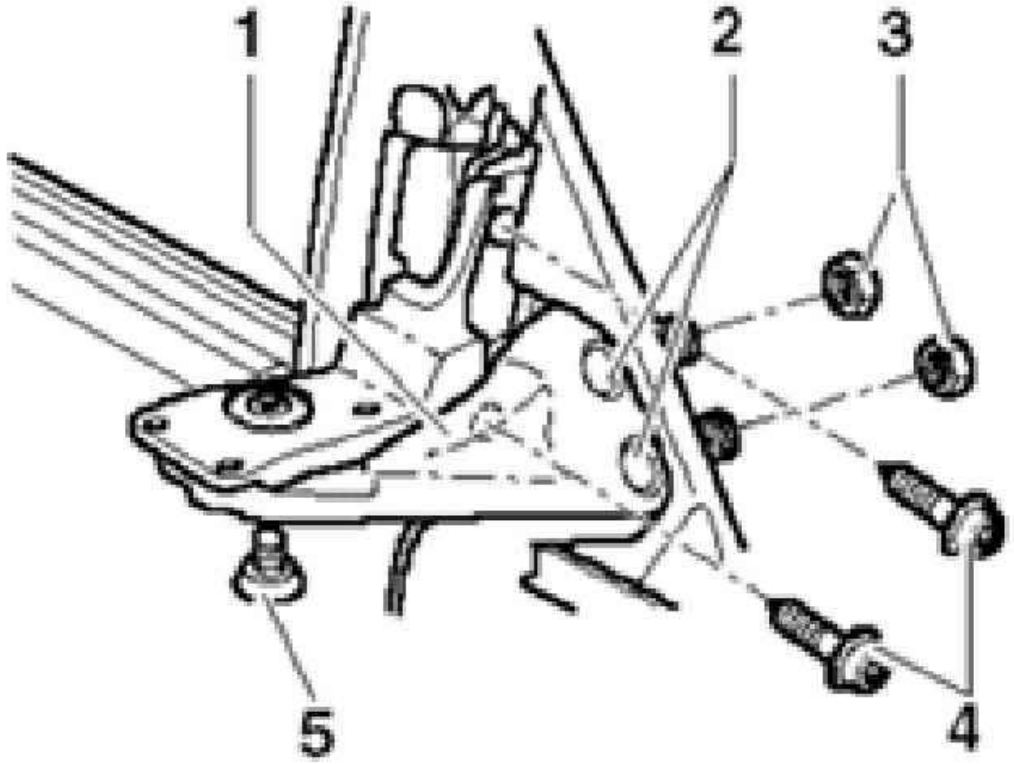
Fig. 37: Tightening Combi-Nut
Courtesy of VOLKSWAGEN OF AMERICA, INC.

Adjusting side inclination (distance)

NOTE: The side window must be installed.

- Remove window slot outer seal.
- Remove bolts/screws -1-.



1 - Door hinge.

2 - Threaded stud.

3 - Nut (20 Nm + 90°).

4 - Bolt (20 Nm + 90°).

5 - Bolt (27 Nm).

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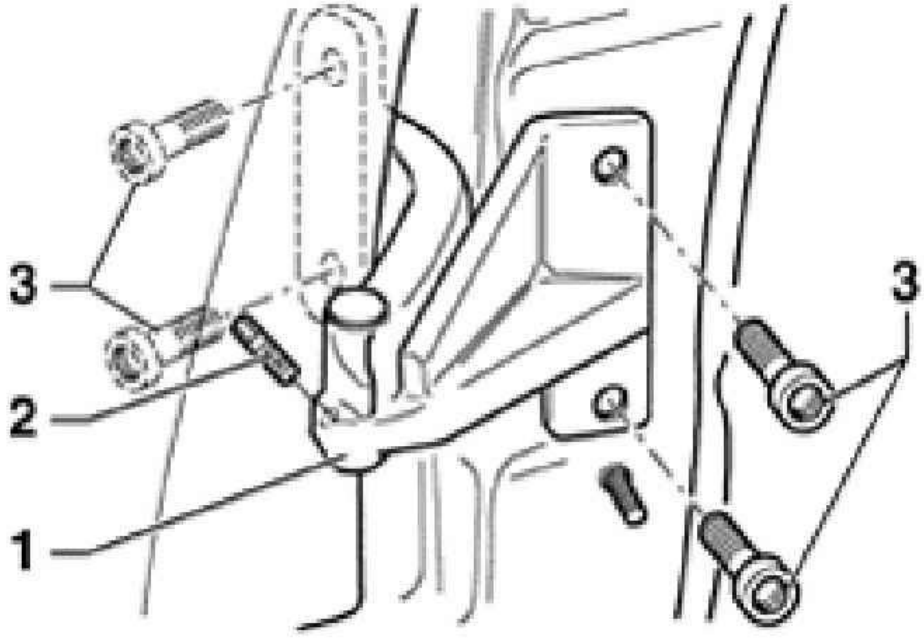
Fig. 38: Removing Window Bolts/Screws
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Loosen combi-nuts in assembly opening.



1 - Door hinge.

2 - Grub screw (13 Nm).

3 - Bolt (20 Nm + 90°).

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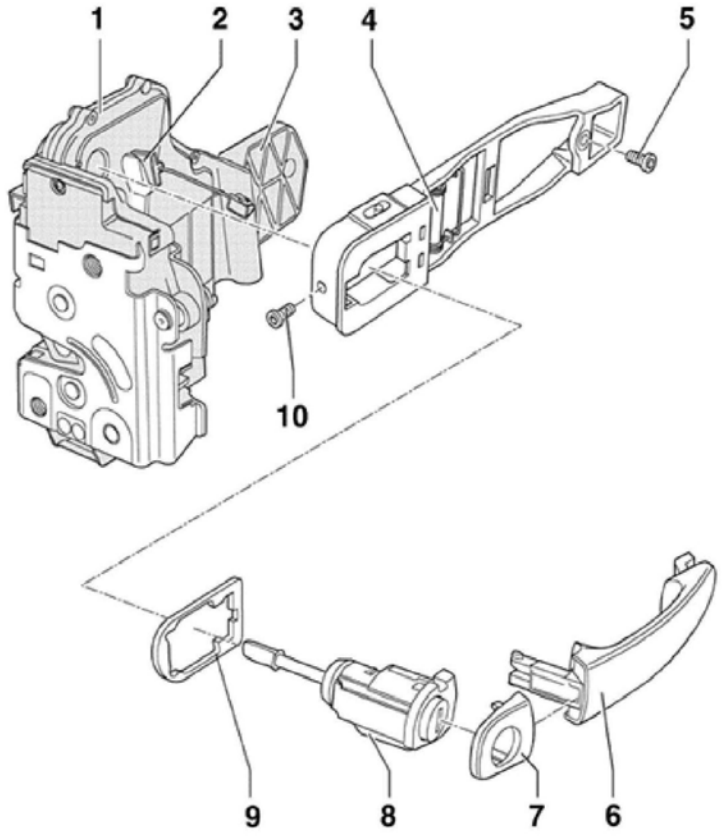
Fig. 39: Loosening Combi-Nuts In Assembly Opening
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Adjust side window distance and inclination at adjuster using an Allen key.
  - Then perform functional check.
- Tighten combi-nuts.



1 - Door lock
2 - Cable
3 - Retaining bracket
4 - Bearing bracket
5 - Multi-point socket head bolt
6 - Door handle
7 - Cover cap
8 - Lock cylinder housing
9 - Backing piece
10 - Multi-point socket head bolt

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Fig. 40: Tightening Combi-Nuts In Assembly Opening
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Tighten retaining plate bolts/screws.

- Install window slot outer seal.

CARRIER PLATE, REMOVING AND INSTALLING

NOTE:

- **The carrier plate can also be removed with side window. The upper adjuster must screwed in completely for this.**
- **If the side inclination (distance) is not correct this can be corrected via the adjuster on the carrier plate.**
- **The side window must be installed for this.**

Removing

- Remove side window. See **SIDE WINDOW, REMOVING AND INSTALLING** .
- Disconnect electric window connection.
- Remove cap from lower assembly opening.
- Loosen combi-nuts in assembly opening -arrows-

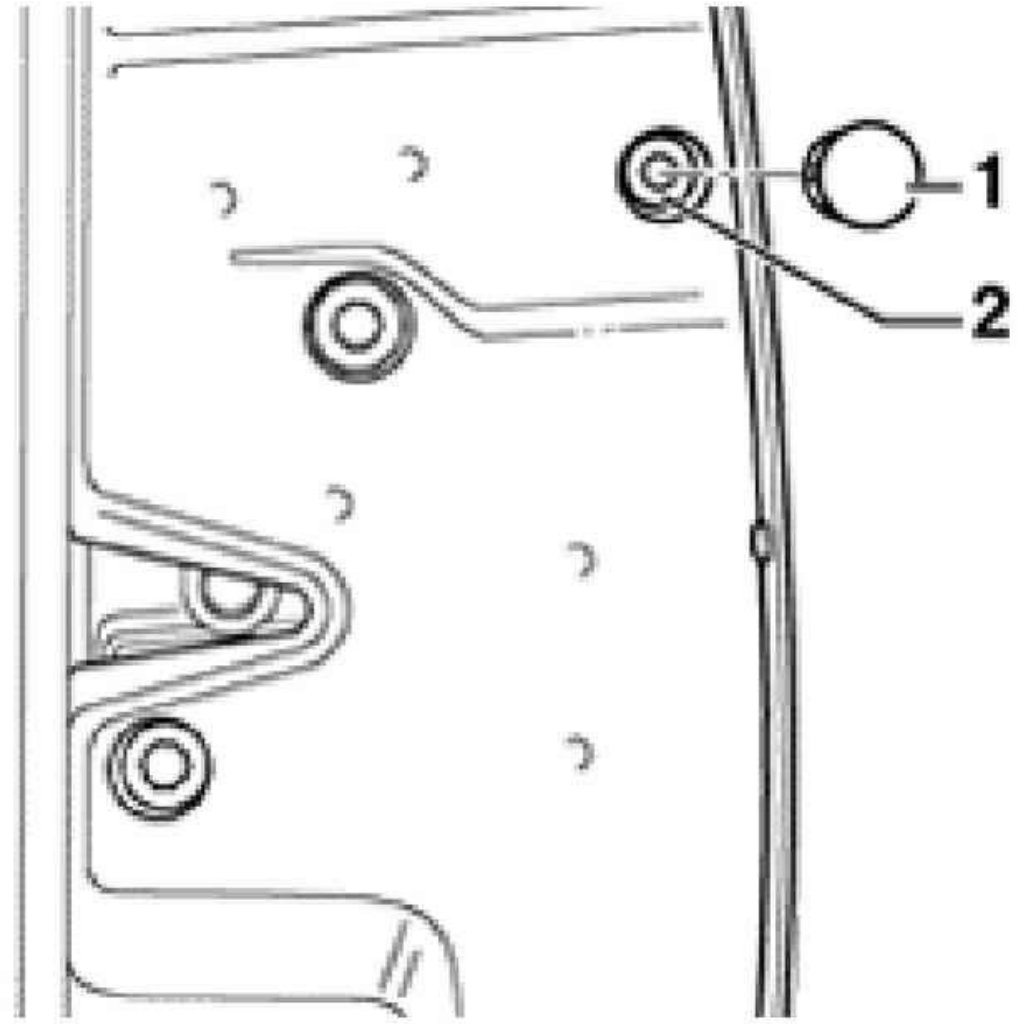

Fig. 41: Loosening Combi-Nuts In Assembly Opening
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Take carrier plate out upward through window slot.

Installing

Install in reverse order of removal.

NOTE: Check adjustment of side window after assembly.

WINDOW ELECTRIC MOTOR, REMOVING AND INSTALLING

Removing

- Remove carrier plate, see **CARRIER PLATE, REMOVING AND INSTALLING** .
- Remove the 4 screws -1- from the rear.

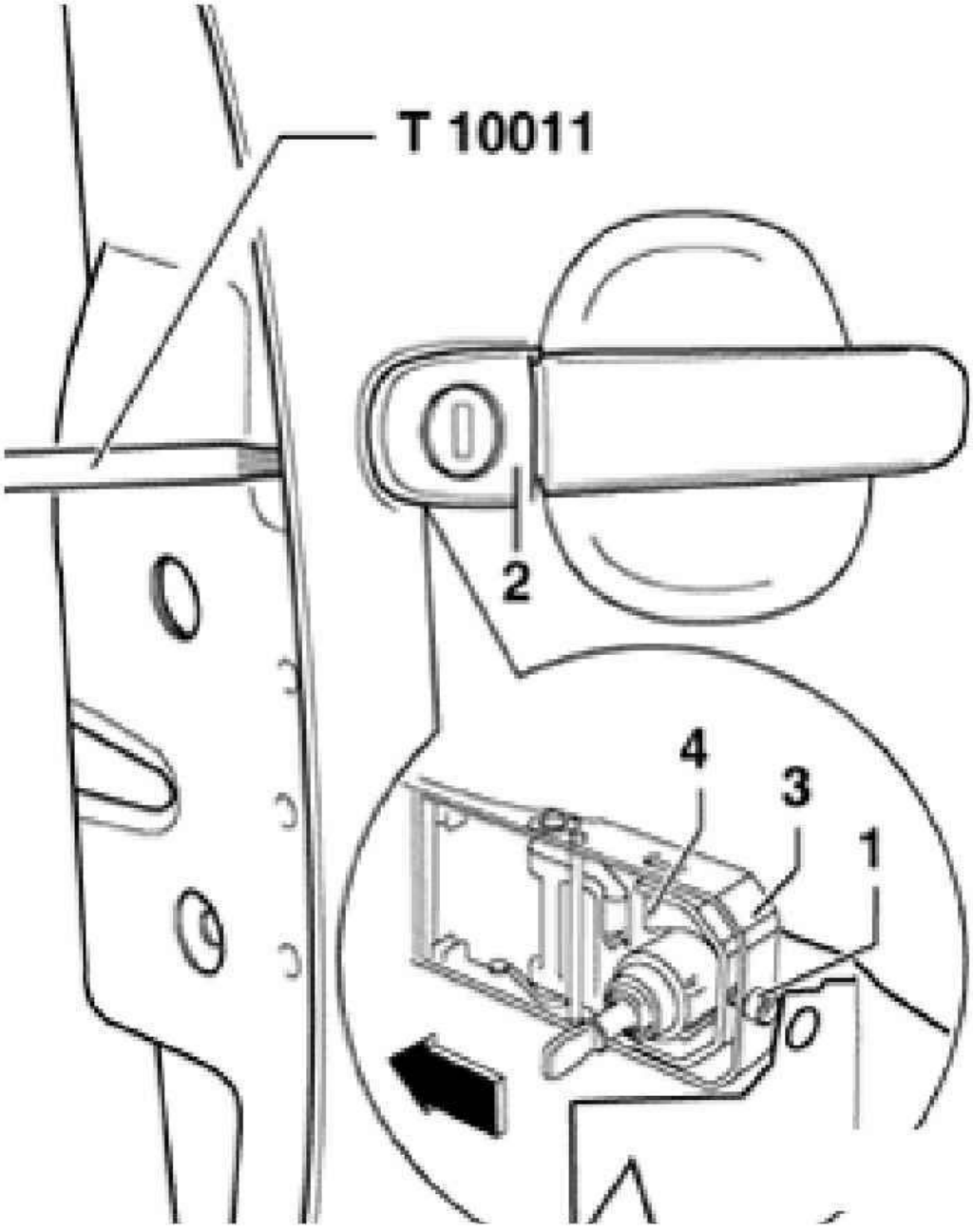

Fig. 42: Window Electric Motor Screws
Courtesy of VOLKSWAGEN OF AMERICA, INC.

- Take cable guide housing carefully off motor.
    - The tensioning roller for the cable must not come off the motor.
- Remove motor.

Installing

Install in reverse order.